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ABSTRACT

This supplementary report begins with general information on licensing boards, associations, societies, reliability of data, and similar items. The second, and main, section deals with the following disciplines: administrators, doctors of medicine, doctors of osteopathy, dentists, dental hygienists, dieticians, inhalation therapists, medical record librarians, medical technicians, nurses, occupational therapists, optometrists, orthotics, prosthetics, pharmacists, physical therapists, radiologic therapists, sanitarians, sanitary engineers, social workers, speech pathologists, and audiologists. For each occupation, what they are, current statewide employment, current needs, range of salaries, education, and schools are specified. Maps showing distribution of hospitals and nursing homes are included. Charts, showing current employment and need in each discipline alphabetically arranged by county, specialties of doctors of medicine, doctors of osteopathy, and dentists, and classes of nurses, complete the document. (AG)

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HEALTH MANPOWER IN MISSOURI

- CURRENT EMPLOYMENT
- CURRENT NEEDS
- SCHOOLS

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1968

CE 000 029

FORWORD

It appeared to those who were assembling, arranging, and writing the material for the MANUAL OF MEDICAL AND PARAMEDICAL SERVICES FOR MISSOURI that the emphasis should be placed on services. As a result, the personnel engaged in the many health disciplines had to take a very secondary role in that publication.

A great amount of information was gained regarding those people presently engaged in the various health disciplines through surveys made to gain information for the MANUAL OF MEDICAL AND PARAMEDICAL SERVICES. This information along with information furnished by several other organizations and groups engaged in some phase of personnel surveys, gave rise to the opportunity to devote this report to picturing the present supply of Medical and Paramedical personnel and the current needs for more persons to carry out some phase of health services.

The MANUAL OF MEDICAL AND PARAMEDICAL SERVICES is being prepared under a grant from the Missouri Regional Medical Program. The needs for a health manpower report were presented to the Advisory Committee of the Missouri Regional Medical Program for its consideration and approval.

The Advisory Committee approved the suggestion and directed the personnel engaged in preparing the "Manual" to collect, assemble, and publish a supplementary report of "Health Manpower in Missouri".

As the reader will notice, the general format of the Report is directed towards encouraging people to embark in some health occupation as a life work. To afford information as to the usual health disciplines, we try to give the actual supply of people in each discipline, and then as nearly as we can, present the current needs for more persons.

As an additional factor, the present Report establishes a base line in the occupations, and subsequent revisions may compare losses and gains in the various disciplines.

A number of the professional health organizations and groups have maintained a recruiting program, to a greater or lesser extent, and many have bulletins and folders of the disciplines. This Report is the first one to endeavor to draw together information about all of the important fields in health personnel in Missouri.

A C K N O W L E D G E M E N T S

Since, in reality, the information contained here is derived from the information furnished by many organizations and groups, and supplied to the project director and editor with hearty good will, we wish to enumerate and thank the following sources of information:

1. The Missouri State Medical Association and the American Medical Association.
2. The Missouri Association of Osteopathic Physicians and Surgeons.
3. The Missouri Dental Association.
4. The Missouri Division of Health, especially listing the current and needed public health personnel, the lists of the classes of nurses, the reporting of the current personnel needs of hospitals, nursing homes, and public health by the Professional Survey of the Division.
5. The Missouri Hospital Association for information of personnel and schools in hospitals.
6. The Missouri Department of Education concerning schools of health disciplines.
7. And not least, the many professional health organizations and facilities.

Without the very willing and efficient cooperation of all of these, we would not have been able to assemble the Report.

Chester G. Starr, Project Director
Loyd M. Harmon, Editor
June, 1968

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The current employment and current need in each discipline by counties arranged alphabetically.

Specialities of doctors of medicine, doctors of osteopathy, dentists. Classes of nurses.

GENERAL INFORMATION

LICENSING

The State of Missouri requires persons who may wish to practice in the fields of health, stated below, to pass examinations and be licensed to practise in the particular discipline. The licensing boards will send to any applicant, the forms for application for licensure and inform the applicant as to the time of examination. Each person holding a license is required to renew it annually.

FOR DENTISTS AND DENTAL HYGIENISTS
Missouri State Dental Board
Central Trust Building
Jefferson City, Mo. 65101

FOR DOCTORS OF MEDICINE AND
DOCTORS OF OSTEOPATHY
Healing Arts State Board of Registration
100 East Capital Ave.
Jefferson City, Mo. 65101

FOR REGISTERED NURSES AND
LICENSED PRACTICAL NURSES
Missouri State Board of Nursing
233 1/2 East High St.
Jefferson City, Mo. 65101

FOR OPTOMETRISTS
Missouri State Board of Optometry
7447 Holmes St.
Kansas City, Mo. 64106

FOR PHARMACISTS
Missouri State Board of Pharmacy
911 West Dunklin St.
Jefferson City, Mo. 65101

ASSOCIATIONS AND SOCIETIES

There are state associations, societies and chapters in the disciplines contained in the description. Some form an organization for the entire state, some for part of the state and others are chapters of national organizations. We have listed under each section describing the discipline, the name, secretary or president and the address of the state organization, part of the state or chapter. We refer the reader to the particular organization in which he is interested for information not contained in the Report.

RELIABILITY

In writing the description of each discipline and preparing the charts showing distribution in each county, when there is a Missouri licensing board, we used the data furnished by the particular board. When there is no licensing requirement and hence no licensing board, we have used information from the associations of the disciplines and from the various health facilities. The data are for the year of 1967. It will be noted that in the various disciplines, even though no state licensing is required, the particular association or society poses certain requirements prior to accepting members.

It has been a problem to present the actual working members of a discipline. For illustration, the licensing board of registered nurses and licensed practical nurses has a large number licensed, more than can be accounted for by our search for the actual number of working nurses. The same problem arose in the list of licensed pharmacists. It is apparent that many licensees renew licenses, although they have either retired or for some reason, are not working in their profession. We have stated in each section, the information that we have been able to secure relative to active members.

APPARENT NEEDS FOR MORE PERSONNEL

From the Missouri State Medical Association, the Missouri Association of Osteopathic Physicians and Surgeons, the Missouri Dental Association, a survey recently made by the Professional Survey Section of the Missouri Division of Health and a joint study by the Section of Health Occupations of the Missouri Department of Education and the Missouri Hospital Association, we have been able to picture the acute need for more personnel in the majority of health disciplines and an estimate of possible increase in enrollment in many of the various schools. We point out that these are actual data and not an estimate of the optimum employment that might be employed to meet any special percentage or ratio. The shortages in each county are contained in the respective charts that follow in the Report.

SCHOOLS

From the various associations, licensing boards, Missouri Hospital Association and the Department of Education, we have compiled a list of approved schools offering instruction and training in the various fields of health. We secured 1967-68 catalogs of many of the schools. The description of the schools for each discipline contains essential information about each school.

FINANCIAL AIDS

There exists in many schools offering instruction and training in a given health discipline, student financial aid, including part time campus work. There are a number of local associations and societies that provide financial assistance to those students resident in the particular county. Some state associations also provide funds for certain purposes. Since these scholarships and grants vary from place to place and from one year to another, we have been unable to list them all. Any person interested in securing partial or total financial aid should contact the particular school. Inquiry to local and state health associations can also be fruitful.

LOCATIONS, SPECIALITIES, RATIOS

There are a number of factors that affect distribution of health personnel. In respect to physician location, two generations ago, when the roads were several inches thick in dust in summer and bottomless mud in winter; when there were few or no telephones; when horsepower was the means of conveyance, rural Missouri supported a myriad of small towns and hamlets, many of them off the existing railroads. Each one had one or more practicing physicians who were really "horse and buggy" doctors. Office calls were few and the doctor of those days went to his patient.

As the highways were improved into "ribbons of concrete and asphalt"; as telephones became common both for local and long distance service; as the automobile became the means of transportation, conditions in Missouri changed radically. Patients were able to travel ten to fifteen miles in less time than it had formerly taken to drive or ride a horse three miles. As the modern laboratory methods were developed and the doctor had efficient assistants to furnish information leading to faster and better diagnosis, the old time doctor either moved to a larger center, died in harness or retired. He was not alone in this migration. The general store, the blacksmith shop and the grist mill, all disappeared.

The other health disciplines affected by the modern medical practices and methods, have tended to appear in the localities where there were facilities for their work and the demand for their services was such to furnish a good living.

This movement has left some areas seemingly short of health personnel. Actually in most cases, this is not true. We would illustrate some examples. Ralls County is next door to Hannibal in Marion County and from any part of Ralls County, one can drive to Hannibal to keep an appointment with a health facility or person within a few minutes. Webster County, next to Springfield and Andrew County close by St. Joseph, are other examples of modern medical availability. One of the most interesting areas is Stoddard County. The northeast part goes to Cape Girardeau, the eastern section is close by Sikeston and the western section shops in Poplar Bluff. St. Louis draws from Southern Illinois, and Kansas City and St. Joseph have many coming from Kansas.

The tremendous increase in medical knowledge and treatment in the past ten to fifteen years, have been such that no one physician can keep informed of the advances being made in the many sub-fields of his profession. The many laboratory procedures used in modern diagnosis and treatment have greatly affected the way a physician practises his profession. While the general practise physician is still the backbone of the profession, he often needs the aid of a specialist. The advances made in the practise of medicine in hospitals have caused a proliferation of specially trained persons to handle the continually increasing need for more and better paramedical services. No one can dispute the fact the 1967 medicine is far advanced as compared with 1900.

In many articles and discussions concerning medical and paramedical services, ratios of certain occupations are quoted as being too low for certain areas. Much of the preceeding paragraph concerning location applies to any discussion of ratios. To be meaningful, ratios should not be based upon the population of any county but on the trading area involved.

SOME COMPARISONS 1955-1959-1966

To Mr. David A. Gee, administrator of the Jewish Hospital in St. Louis, we are indebted for some data in comparing certain factors in health education and supply of paramedical personnel. In early 1960, Mr. Gee, at the request of the Missouri Council for Health Careers, determined the number of schools and the personnel employed in 1959 in the approximately 175 hospitals of that date. We are using the data concerning the number of schools, enrollment in them and the employment in the hospitals, comparing these data to those obtained in 1967.

NUMBER OF PARAMEDICAL SCHOOLS AND POSSIBLE INCREASE IN ENROLLMENT

DISCIPLINE	1959 NUMBER	POSSIBLE INCREASE
Dieticians	2	15
Medical Record Lib.	3	17
Medical Technicians	25	73
R.N. Schools	27	405
L.P.N. Schools	10	39
Occupational Therapy	1	6
Physical Therapy	2	Full
Radiologic Technology	22	37
	1966	
Dieticians	9	No. Estimate
Medical Record Lib.	3	30
Medical Technicians	23	265
R.N. Schools	32	600
L.P.N. Schools	22	125
Occupational Therapy	2	50
Physical Therapy	3	No Estimate
Radiologic Technology	24	200

PERSONNEL EMPLOYED IN HOSPITALS

DISCIPLINE	1955	1959	1966
Dietician	170	235	309
Medical Record Lib.	47	69	169
Medical Technician	270	376	1,280*
R.N.	4,285	5,412	6,637
L.P.N.	1,425	2,229	3,669
Radiologic Tech.	332	360	595*
Occupational Therapy	34	42	115
Physical Therapy	60	90	169

In the reports from hospitals in 1966, there were no divisions in technicians. A total of 1,875 were reported. From our observations we are listing two-thirds of these as medical technicians. Notice the mark of *.

PUBLICATIONS OF INTEREST

Recently two publications have become available concerning Health Careers and the present supply of people in the various health fields. We recommend both to anyone interested in selection of a health career.

"HEALTH CAREERS GUIDE BOOK"
NATIONAL HEALTH COUNCIL
1740 BROADWAY ST.
NEW YORK, N.Y. 10019

AND

"PUBLIC HEALTH SOURCE
PUBLICATION NO. 1509
HEALTH RESOURCES STATISTICS – HEALTH MANPOWER 1965"
NATIONAL CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
WASHINGTON, D.C. 20202

ADMINISTRATOR HOSPITALS

This is a speciality that has been developing rather rapidly in the past ten years. Previously, the administrators of the majority of the hospitals, especially those of small to moderate size, were nurses who had displayed ability to manage institutions, supervise personnel and be responsible for the operation of the hospital. The greatly increased use of hospitals, the increase in bed capacity, the increase in paramedical services and the increase in labor difficulties; have tended to develop specialists in hospital administration. With the demand for trained administrators, has come the school at Washington University in St. Louis.

This school requires students to have either the B.S. or M.D. degree. The course is 12 months of academic work and twenty-one months of clinical experience. The fees are $1,910.00 per year for the academic term and $300.00 for the clinical period. With present enrollment of twenty-three in the academic and fourteen in the clinical term, in 1968, it is estimated that twenty-five in class can be accomodated.

For details, contact James O. Hepner, Ph.D., Washington University, St. Louis, Mo., 63110.

DOCTORS OF MEDICINE

The July 24, 1967, Directory of the American Medical Association lists a total of 5,105 in Missouri. This includes those in educational systems, in official capacities, in private practice and those who have retired but still retain AMA membership. As of January 3, 1966, the latest data from the AMA indicates a total of 3,052 doctors of medicine in private practise.

From the 1967 Directory, the following specialities and number in each:

Anesthesia	123
Cardiovascular	31
Dermatology	71
Gastroenterology	9
General Practice	1,159
Internal Medicine	896
Neurology	57
O.B. and Gynecology	246
Occupational Medicine	27
Opthalmology	192
Otolaryngology	131
Pathology	199
Pediatrics	282
Physical Medicine	7
Psychiatry	351
Public Health	25
Radiology	197
Surgery	
Colon and Rectal	12
General	631
Neurology	41
Orthopedic	146
Plastic	32
Thorastic	32
Urology	113
Administrative	27
Allergy (Sub-Speciality of Internal Medicine)	9
Aviation	5
General Preventive	11
Others	43

From the directories of the St. Louis City Medical Society and the Jackson County Medical Society, we list the divisions as to ages. In St. Louis, there were 14 per cent born in 1900 or before, 18 per cent from 1901 to 1910, 22 per cent from 1911 to 1920, 30 per cent from 1921 to 1930, and 16 per cent subsequent to 1930. The Jackson County listing was 10 per cent born in 1900 or earlier, 18 per cent from 1901 to 1910, 30 per cent from 1911 to 1920, 33 per cent from 1921 to 1930 and 9 per cent subsequent to 1930.

There is continued demand from many areas in Missouri for doctors of medicine. The combined lists of requests for doctors secured from the Missouri State Medical Association and the Medical Center of the University of Missouri, shows requests from 53 counties for from one to three physicians. The request list is not always accurate in that an area desiring a physician may have found one but did not report this to either of the organizations.

There are areas on the other hand, however, which desire the services of a physician and have not made any formal request. Many areas make most attractive offers of office space, equipment and may go as far as making a guarantee of income for the beginning period.

The Medical Physician Association is:
Missouri State Medical Association
Mr. Ray McIntyre, Secretary
515 East High St.
Jefferson City, Mo. 65101

SCHOOLS

Named below are the three schools of medicine in Missouri. As a general rule, all three have the same requirements for admittance, four years of planned pre-medical study in a recognized college. It is possible that an exceptional student may be admitted with only three years of college work but this is rare. All applicants are required to take the Medical College Admittance Tests of the American Medical College Association and administered by the Psychological Corporation, 304 East 45th St., New York, N.Y. All applicants must make formal application, including special information required by the particular school and are then screened both from the application and from personal interviews conducted by a committee of the school. It is suggested that any person interested, secure a copy of "Admission Requirements of the American Medical Colleges" from the American Association of Medical Colleges, Department 3 B, 3530 Ridge Ave., Evanston, Illinois.

After the four years of study and training and graduation, almost all new M.D.'s undertake at least one year internship in some reputable hospital and many go on to take another year or more as residents. Internships and residencies are arranged by the placement committees of the schools, taking into account the wishes of the student and possible openings. Membership in the various speciality boards is achieved after this period and after considerable advanced work by the physician. The prospective physician must pass the Board of Healing Arts' examination for license to practise in Missouri.

St. Louis University
School of Medicine
Robert H. Felix, M.D., Dean
1402 South Grand Blvd.
St. Louis, Mo. 63104

The annual tuition is $1,800.00 which may be paid in equal installments or on a budget plan. Books cost approximately $125.00 annually. A microscope which will cost from $250.00 to $550.00, must be purchased. Living costs range from $1,700.00 or more depending upon the person. Various student aids are available. Consult the school concerning these.

University of Missouri
Medical Center
William D. Mayer, M.D., Dean
Stadium Road
Columbia, Mo. 65201

This school requires that each applicant submit a written statement relative to his past experiences and wishes to become a physician, in addition to the requirements stated above.

Current enrollment is 332, the capacity of the school. In the fall of 1968-69, the freshman class will be expanded to 100. For Missouri residents, the incidental student fees and car fees are $503.75 annually. A microscope ranging from $250.00 to $550.00, is required in the freshman year. Room and board is estimated to be from $850.00 to $1,000.00. Contact the school for financial aides.

Washington University
School of Medicine
M. Kenton King, M.D., Dean
660 South Euclid Ave.
St. Louis, Mo. 63110

Current enrollment is 350, the present capacity. In the school year of 1971-72, it is planned to increase capacity to 409.

Annual tuition is $1,800.00 which may be paid in installments. The combined tuition fees, health fees, car fees and microscope cost in the freshman year, amounts to total of $2,115.00. Room and board will run from $1,700.00 to $2,200.00 annually. Consult the school for financial aids.

DOCTORS OF OSTEOPATHY

The 1967 directory of the Missouri Association of Osteopathic Physicians and Surgeons lists a total of 1,000 physicians. As certified by the speciality boards of the American Osteopathic Association, and furnished by the Missouri Association, there are:

Anesthesia	10
Internal Medicine	11
O.B. and Gynecology	9
Opthalmology	10
Pathology	3
Pediatrics	7
Physical Medicine	6
Radiology	8
Rectal Diseases	8
General Surgeons	28
Otolaryngology	2
Roentgenology	8
Psychiatry	5
Neurology and Psychiatry	2
Orthopedics	1
Dermatology	1
General Practise	887

Thirty seven counties in Missouri have requested the services of the Missouri State Association to find one or more doctors of osteopathy for them. The current total of these requests number 47

openings.

The Osteopathy Association is:
Missouri Association of Osteopathic Physicians and Surgeons.
Mr. Paul D. Adams, Secretary
325 East McCarty St.
Jefferson City, Mo. 65101

SCHOOLS

Kansas City College of Osteopathy and Surgery
Eugene P. Powers, D.O., President
2105 Independence Ave.
Kansas City, Mo. 64121

For admittance, a student must have four years of pro-professional college education with an average minimum of C scholastic grade. Thirty nine months of education and training in four calendar years required for graduation. Internship is available in several allied osteopathic hospitals.

Present capacity for the freshman class is 112. Total enrollment, 1968, is 424.

Tuition cost, annually, $1,500.00. Other fees are $93.00 to $153.00, books $125.00 to $150.00 annually. Microscope from $275.00 to $385.00 required in freshman year. Living cost, minimum, board $20.00 per week, room $12.00 to $15.00 per week. Dormitory for single students cost $370.00 per tri-semester for room and board. Consult school for financial aids.

Kirksville College of Osteopathy and Surgery
Morris Thompson, Ph.D., President
Kirksville, Mo. 63501

For admittance, student must have completed three years of planned pre-professional study. Thirty-nine months in four years required for graduation. Internship is available in several allied hospitals.

Present enrollment is 424. Freshman class is 106. Tuition annually is $2,500.00, other fees $25.00. Books annually $150.00. Microscope in freshman year from $175.00 to $250.00.

Meal costs from $350.00 to $400.00 per year. Room costs $180.00 to $250.00 annually. Student housing has 44 units for married students, 24 veterans' housing units, seven apartments and four fraternity houses. Consult school for financial aids.

A doctor of osteopathy must pass the examination of the Board of Healing Arts for a license to practise in Missouri.

DENTISTS

According to the Missouri Dental Licensing Board, there are 2,208 dentists holding licenses. The vast majority of these are in private practice although they are also found in public health and in some industries. As supplied by the Missouri Dental Association, there are the following specialists:

Oral Surgeons	40
Orthodonists	82
Peridonists	10
Oral Pathologists	2
Endodonists	4
Pedontists	30
Prosthodonists	20
General Practitioners	2,020

The Missouri Dental Association reports a continued demand for more dentists in many areas in the state. Over the past quarter of a century, Missourians have widely accepted the idea of having their teeth cared for by a dentist and dentures are widely adopted by many, who, a generation ago, just got along with "gumming". The earnings of the dentist in private practice have been rising over the years and a successful practitioner has a most excellent income.

The Association for Dentists is:
Missouri Dental Association
Mrs. Betty Satterfield, Secretary
103 West High St.
Jefferson City, Mo. 65101

SCHOOLS

Missouri schools of dentistry follow the general admission regulations of the American Dental Association and the American Association of Dental Schools. As a prerequisite for consideration of an applicant, a minimum of two years study in a liberal arts college is required. It is strongly recommended that this minimum requirement be enlarged to either three or four years, with a B.S. degree with the cirriculum designed to fit into the professional dentistry education later. St. Louis University reports for the 1967-68 freshman class, 15 per cent for two year education, 20 per cent for three years and 65 per cent for four years. The University of Missouri at Kansas City reports 4 per cent for two years, 42 per cent for three years and 54 per cent for four year education. Washington University reports 5 per cent for two years, 40 per cent for three years and 55 per cent with four years.

All applicants must take the Dental Aptitude Test as formulated by the American Dental Association. The applicants are also screened for aptitude and training by an admission committee of the school. The degree given is Doctor of Dental Surgery. For those students who wish further training to qualify as a specialist, the schools offer advanced education and training.

St. Louis University
School of Dentistry
3536 Caroline St.
St. Louis, Mo. 63104

According to public announcement, this school will not accept any more freshmen and will graduate its last class in 1971. Present freshman class numbers 70.

University of Missouri at Kansas City
School of Dentistry
Russell W. Sumnicht, D.D.S., Acting Dean
1108 East 10th St.
Kansas City, Mo. 64106

Capacity is 476. Present enrollment is 464. Free tuition for residents of Missouri. Incidental fees, including activity and special dental school fees amounts to $262.50. Laboratory fees for certain laboratories $5.00 deposit to be returned after deduction for abnormal wear. Living can be in dormitories; double room with 20 meals per week $450.00 per semester. Annual hall fee $4.00. There are a number of student aids, consult the school.

Washington University
School of Dentistry
Leroy R. Boling, Ph.D., Director of Admission
4559 Scott Ave.
St. Louis, Mo. 63110

Freshman capacity is 57 each year. Present enrollment total is 195. Will increase capacity by about 20 in next four years.

Tuition cost $1,900.00 annually. Dormitory cost from $1,500.00 to $1,800.00 annually. Number of financial aids.

DENTAL HYGIENTISTS

Primarily, the dental hygienist cleans teeth and teaches patients the proper methods of keeping teeth and mouth in the best possible condition. She works under supervision of a dentist and is of value in assisting him in practice and in the education of his patients. Most dental hygienists are in dental offices, but in recent years, openings in schools, public health departments, industrial plants and veterans' hospitals are developing.

The State requires that dental hygienists be licensed and the Missouri State Dental Board reports a total of 150 so licensed. There are apparently many positions that a licensed hygienist could find, but we are not able to make an accurate estimate of the number.

The state association estimates that the range of salaries is from $450.00 to $800.00 per month. The association is:

Missouri Dental Hygienists Association
Miss Shannon O'Donnell, Executive Secretary
43 Van Mark Way
Brentwood, Mo. 63144

SCHOOLS
Forest Park Community College
6500 Oakland Ave.
St. Louis, Mo. 63110

An eighteen months course of instruction with a certificate of Assistant in Applied Science is given. School fee is $156.00 per semester for residence in the district and $312.00 for others. Current enrollment is twenty and might be expanded to twenty-five.

University of Missouri at Kansas City
School of Dentistry
Russel W. Sumnicht, D.D.S., Acting Dean
1108 East 10th St.
Kansas City, Mo. 64106

Two courses are offered. First one takes three semesters and two complete summers. At the conclusion, student receives certificate in Dental Hygiene.

The second course requires completion of the first course plus advanced work for a total of 132 hours. It is suggested that students planning to take the second course, have two years of general college study planned to fit into the advanced study, in either the University or some other college.

Current enrollment is twenty three in upper class and thirty in lower class. Possible to accept thirty in each class. No tuition for Missouri residents. Incidental fees are $187.50 plus books. Estimate of living cost for average student is $100.00 per month.

DIETICIANS

Dieticians plan and direct food services in hospitals, hotels, schools, restaurants and in industrial establishments. They plan menus and diets to meet nutritional requirements for health or medical treatment, directing personnel who prepare meals and furnish guidance in nutrition in selection of foods.

The public health nutritionist provides consultation and education in her field. The teaching nutritionist is found in colleges and universities, usually in the field of home economics. The research nutritionist is engaged in various fields of research relative to food and diet.

In this Report, we are concerned with the dietician in hospitals. The Missouri Dietetic Association reports a total of 382 members as of 1967. Of these, 245 are employed and 137 are not working in their profession.

One hundred and seventy-five hospitals in Missouri reporting personnel, list 309 dieticians. There was no breakdown of members of the state and national associations and those who are non-members. The hospitals reported budgeted need of sixty full time and twenty-one part time dieticians. It is generally agreed that due to better nutrition knowledge, better purchasing of food supplies and better management of food establishments, there is a greater need for more trained dieticians than in previous times.

The Missouri Hospital Association, in its 1967 survey of hospital personnel salaries, reported that fifty-four hospitals using registered dieticians, had a starting mean salary of $500.00 per month, and top mean of $615.00. For the non-registered dietician, 57 hospitals reported a starting mean salary of $300.00 per month and top mean of $355.00. Information from the Missouri Dietetic Association and actual dieticians, indicates the hospital salaries

quoted above are low for the profession. The average dietician in outside employment may earn as much as $800.00 per month.

SCHOOLS

The education of a person for a career in dietetics usually begins in various academic home economic programs. The student plans the courses specializing in food and nutrition. Many home economic graduates step into nutrition without pursuing the courses and time needed for requirement of membership in the American Dietetic Association and membership in the state association. The student who wishes to eventually obtain recognition and membership in the national and state association, must go through an approved internship, or an approved or supervised experience, or special graduate training. We recommend that a student wishing to become eligible for membership in the associations and wishing to command a higher salary level, contact:

Missouri Dietetic Association
Sister Louis Marie Philipps, SSM
Chairman, Education Section
St. Louis University
St. Louis, Mo. 63103

Division of Health
Bureau of Construction and Licensure
Broadway State Office Building
Jefferson City, Mo. 65101

This Bureau conducts a correspondence course of study leading in twelve months to a certificate of primary instruction in dietetics. The fee for enrollment and books is $110.00. At the present time, there are twenty-five enrolled.

Drury College
Director of Home Economics
Springfield, Mo. 65802

Furnishes the basic education in home economics, for advanced work to secure membership in state and national association. Course is four years with degree of B.S. in Home Economics. Graduation from an accredited high school and passing the Scholastic Aptitude Test required for admittance. Tuition $650.00 per semester plus general fees of $17.00. Residence halls available at $130.00 to $160.00 per semester. Board $215.00 per semester. Financial aids may be available.

Fontbonne College
Director of Admissions
St. Louis, Mo. 63105

A Catholic school for women. Admittance is graduation from an accredited high school and passing the Scholastic Aptitude Test. Current enrollment of forty in the special dietician class. Can enlarge to 25 more.

Four year course of study leading to B.S. with major in Dietetics degree. Tuition $650.00 per semester plus $25.00 for general fees. Resident hall room and board from $450.00 to $525.00 per semester. Financial aid available.

Northeast Missouri State College
Mr. Orville E. Bowers, Registrar
Kirksville, Mo. 63501

Four year course of study leading to degree of B.S. in Education with major in Vocational Home Economics. Admittance requirement graduation from an accredited high school. Registration fee $40.00 per quarter (school operates on 4 quarters), student union fee $6.50 per quarter, Laboratory fee $3.00. Residence Halls furnish room and board with two in room, from $175.00 to $198.00 per quarter.

Northwest Missouri State College
The Registrar
Maryville, Mo. 64468

Four year course of study leading to degree of B.S. with major in Foods and Nutrition. Admittance requirement graduation from an accredited high school. Registration fee $110.00 per semester, Health fee $13.50 for the year. Resident Halls furnish room and board for $335.00 per semester.

Southeast Missouri State College
Mr. Lyman F. Evans, Director of Admissions
Cape Girardeau, Mo. 63701

Four year course of study leading to degree of B.S. in Home Economics. Admittance requirement graduation from an accredited high school. Registration fee $80.00 per semester, $40.00 for summer school. Resident Halls furnish room and board from $295.00 to $375.00 per semester.

Southwest Missouri State College
Springfield, Mo. 75802

We are advised that this college is abandoning its teaching in home economics leading to degree in dietetics.

University of Missouri
Dr. Margaret Mangel, Director
School of Home Economics
Columbia, Mo. 65201

The University offers a broad spectrum of home economics training. The capacity of the section concerning Food and Nutrition specialities could accomodate 160 students. Present enrollment is twenty-two.

Two programs are offered:

A. A five year program, four years at the University in basic education and one year in an approved internship in a hospital, thereby qualifying for membership in the state and national associations. It is reported that 60 or more such internships are available in the U.S.

B. A four year course that is just being started in conjunction with the Medical Center, in which the students receive hospital experience and, at the same time, class room education. A maximum of ten students will be in the first class.

There is no tuition fees for Missouri residents. Incidental student fees $175.00 per semester. Esti-

mate for total cost for nine months school is $1,600.00.

Lincoln University
Jefferson City, Mo. 65101

A Home Economics Division is a part of the university but we were unable to secure definite information.

INHALATION THERAPIST

This person uses skill and equipment in attempting to restore normal action of the respiratory system. In many hospitals, this function is undertaken by the nurse-anesthetist. In large institutions, a special therapist is employed. In addition to hospitals, these useful paramedical workers are found in establishments providing emergency oxygen service. We have no reliable data concerning the number of people working in this discipline. Missouri hospitals report the salary range of nurse-anesthetists from beginning mean of $700.00 to a top mean of $800.00 per month.

SCHOOLS

Baptist Memorial Hospital
6601 Rock Hill Road
Kansas City, Mo. 64131

Thirty-six month course of instruction with certificate at completion. Present enrollment is one. Could take seven more. Cost $280.00 for the year.

Menorah Medical Center
4949 Rock Hill Road
Kansas City, Mo. 64110

Requires a total of 1,880 hours study and training for certificate. High School graduation required. No fees. Current enrollment five. Sixteen positions open in the hospital.

St. Mary's Hospital
6420 Clayton Road
St. Louis, Mo. 63117

An eighteen months course of education and training with certificate. Four now enrolled, the capacity of the school. Fees $650.00 per year.

University of Missouri
Medical Center
Stadium Road
Columbia, Mo. 65201

New Course in this discipline is planned to begin the fall semester of 1968. Twelve students can be accepted. Consult Medical Center for details.

IT IS ESTIMATED THAT TWENTY MORE STUDENTS COULD BE ACCEPTED IN THE FOUR SCHOOLS.

MEDICAL RECORD LIBRARIANS

It is increasingly important that a permanent document of a patient's history and progress with a compilation of medical findings and directions, be a part of the records of any hospital. This is the job of the medical record librarian, and the ability to keep and file accurate records is an important part of hospital care and treatment.

The usual minimum school requirement for medical record librarians is at least two years of general college work and one year study in medical record science in an American Medical Association approved school. The trend is towards requiring more college work prior to the last year of training. A very valuable prerequisite is the ability to type rapidly and accurately.

The American Association of Medical Librarians maintains a list of persons who have successfully completed the national registration examination that qualifies such person to use the professional designation of Registered Record Librarian.

In September 1967, there were 209 members of the Missouri Association of Medical Record Librarians. Of these, 169 were in active employment. Fifty-six hospitals report the need of 47 full time and 13 part time librarians. Forty-eight hospitals reported the starting salary mean of $264.00 per month with top mean of $564.00.

The Association in Missouri is:
Missouri Association of Medical Record Librarians
Mrs. Barbara Ruffins, R.R.L., Secretary
4219 Lee Ave.
St. Louis, Mo. 63115

SCHOOLS

Homer G. Phillips Hospital
Mrs. E. M. Sherard, Director
2601 North Whittier St.
St. Louis, Mo. 63113

The school is affliated with the St. Louis City – St. Louis County Junior College where the basic education is available. At least two years of academic work or a degree from a recognized nursing school is required. Proficiency in typing is required. Age limits of applicants are 20 to 55 years. Capacity of school is 12 students. Tuition is $275.00. One meal daily furnished to students. Other fees about $95.00 for year. Room rental in nearby quarters averages $25.00 per month. The school states that the average salary of its graduates is $5,540.00 per year with some receiving as high as $23,000.00 for special cases.

Research Hospital and Medical Center
Miss Edith Mardiat, R.R.L., Director
School of Medical Record Technology
Meyer Blvd. at Prospect Ave.
Kansas City, Mo. 64132

Present enrollment is twenty-five students which is the capacity of the school. High school graduates with superior grades in English and within top third

of the class, certificate of typing proficiency, physical health examination report and two letters of reference, are all required for admittance. The diploma given qualifies student to take National Examination of the national association. Ten months required as term.

Tuition $280.00. Other fees $40.00, books $70.00, room rentals about $250.00 for the year. Meals from $1.60 to $2.00 per day.

St. Louis University
Sister Mary Valentia SSM, R.R.L., Director
School of Nursing and Health Services
1504 South Grand Ave.
St. Louis, Mo. 63104

Accepts junior and senior college students, may be from junior colleges, four year colleges or universities. Current enrollment is twenty in senior and junior classes. Five sophomores and one freshman enrolled in St. Louis University. Could accept twenty in each senior and junior classes. Tuition for two semesters $1,400.00. Books and supplies $150.00. Room and board from $900.00 to $1,290.00 for year. Financial aids available.

MEDICAL TECHNOLOGISTS

A generation ago, the laboratory work connected with medicine was very limited and the physician himself did it all. As time went on, more and more tests and reactions were charted and proved effective in the diagnosis and treatment of disease. The physician needed helpers to save his valuable time and to perform the increasing amount of laboratory practices. Thus, the medical technician.

The medical technician works under the direct supervision of a physician. The various procedures steadily increase but generally, the technician counts blood cells, does blood grouping tests, makes chemical tests of body fluids and tissues, identifies microorganisms in air, milk, water, urine and other body materials. Special apparatus and precision instruments are used in the determinations.

The technician works in hospitals, in physicians' offices, in public and private laboratories, with pharmaceutical companies and in the various branches of the Armed Forces.

In the reports from Missouri hospitals, the medical and radiologic technologists are listed together, with a total of 1,875 employed. Probably two-thirds or more are medical technicians. We are unable to estimate the number in physicians' offices but there are many such employed. The 29 private medical laboratories report 135 employed.

As for current needs, the hospitals ask for 154 full time and 15 part time medical technicians. We have no data for the private medical laboratories but probably they could use at least 25 per cent more than now employed.

The Missouri hospitals, 95 in all, who use medical technicians, report a beginning median salary of $427.00 and a top median of $550.00 per month. This range is probably low if all employed in the discipline are considered.

EDUCATION

The student wishing to be a medical technician is usually required to have the minimum of three years of college study geared to the final year of technical education. It is recommended that the student consult the school in which he desires to enter as to the exact course of study that will be of benefit. As a rule, the fourth year is devoted to clinical work in connection with the discipline. The majority of the schools are associated with or a part of a hospital and no fees are charged. In some cases, a small stipend and uniforms are furnished by the school. The degree entitles the graduate to use the initial (ASCP) after his name. The actual clinical program is usually twelve months.

The Association of Medical Technicians is:
Missouri State Society of American Medical Technologists
Mr. John A. Bennett, M.T., President
16 North Henderson St.
Cape Girardeau, Mo. 63701

SCHOOLS

Baptist Memorial Hospital
6601 Rock Hill Road, Kansas City, Mo. 64131
Barnes Hospital
Barnes Hospital Plaza, St. Louis, Mo. 63110
Burge-Protestant Hospital
1423 N. Jefferson St. Springfield, Mo. 65802
Central Mo. State College
Warrensburg, Mo. 64093
De Paul Hospital
2415 N. Kingshighway, St. Louis, Mo. 63113
Drury College
Springfield, Mo. 65802
Forest Park Community College
St. Louis, Mo. 63118
Homer G. Phillips Hospital
2601 Whittier St., St. Louis, Mo. 63113
Independence Sanitarium and Hospital
1509 Truman Road, Independence, Mo. 64052
Kansas City General Hospital
24th and Cherry Sts., Kansas City, Mo. 64108
Menorah Medical Center
4949 Rock Hill Road, Kansas City, Mo. 64110
Missouri Baptist Hospital
3015 New Ballas Road, Town and Country, Mo. 63131
North Kansas City Memorial Hospital
2800 Hospital Drive, North Kansas City, Mo. 64116
Northwest Mo. State College
Maryville, Mo. 64468
Research Hospital
Meyer Blvd. at Prospect Ave., Kansas City, Mo. 64132
St. John's Hospital of Joplin
2226 Jackson St., Joplin, Mo. 64801
St. John's Mercy Hospital
615 South New Ballas Road, St. Louis, Mo. 63141

St. Joseph's Hospital
923 Powell St., St. Joseph, Mo. 64501
St. Luke's Hospital
Wornall Road at 44th St., Kansas City, Mo. 64111
St. Louis County Hospital
601 Brentwood St., Clayton, Mo. 63105
Trinity Lutheran Hospital
31st and Wyandotte Sts., Kansas City, Mo. 64108
University of Missouri
Medical Center, Columbia, Mo. 65201
William Jewell College
Liberty, Mo. 64068

A COMBINED ESTIMATE OF POSSIBLE INCREASE IN ENROLLMENT IN THE TWENTY-THREE SCHOOLS IS 265.

NURSES

Man has always needed help, some one to tend wounds and care for him in times of illness and pain, hence nursing is the oldest paramedical service. As medical science developed, so did the duties of the nurse. The first nurse learned by observing and trying various remedies and care. The profession kept growing in knowledge, experience and in numbers. Finally schools of nursing evolved to give education and training, which, before, the nurse had to learn by trial and error experience.

Today in hospitals, in nursing homes, in industry and in public health, the registered nurse is the leader of the team. Upon her rests the responsibility of seeing that the directions of the surgeon or physician are carried out, and that the patient is as comfortable as possible. The progress of the registered nurse starts with general duty and, in a hospital, it may lead to supervision position or head of the nursing department. It may also lead to a position in industry, in school work, in public health or in a visiting nurse organization. We will briefly outline each line of work.

THE REGISTERED NURSE IN THE HOSPITAL

In the early days of hospital care, the registered nurse (R.N.), had a multitude of duties, from feeding the patient to taking temperatures, blood pressure and administering medicines. As the number of hospitals increased the use of these "handy get well" places, the registered nurse was forced to turn over many of her routine tasks to others and devote her time to the supervision of licensed practical nurses, aides and orderlies. She became a recognized scientist and not merely a "maid of all work".

The Missouri hospitals report a total of 6,483 full time and 154 part time R.N.'s, in employment. They also report the current need of 1,952 full time and 230 part time nurses to fill present vacancies.

One hundred and five hospitals report a starting salary median of $435.00 and the top median of $519.00 per month for general duty nurses. Ninety-eight hospitals paid a starting salary median of $450.00 with top median of $526.00 per month for operating room nurses. The supervisory nurses received a salary median of $500.00 to a top median of $595.00 per month. One hundred hospitals reported paying director of nursing a beginning salary of $500.00 with a top median of $597.00 per month.

THE REGISTERED NURSE IN NURSING HOMES

The R.N.'s in nursing homes are becoming more and more significant in the professional nursing homes and more are being found in these places. One reason for the increase is requirements of Medicare for recognition of nursing homes in the extended care program.

As of January 1, 1968, a total of 330 full time and 341 part time registered nurses are reported by the nursing homes in Missouri. Thirty-three nursing homes report the need of 46 more full time and 15 part time R.N.'s.

SCHOOL NURSES

Many school disiricts in Missouri, especially since the present trend towards larger districts, use school nurses as a means of providing education in better health, taking care of physical and mental health needs of students, and supervising facilities at the school to insure fewer accidents and better health of the students. A school nurse has the basic education of a registered nurse and then goes on, either through experience or education to her chosen career. The majority of these nurses are usually more mature than the average hospital nurse and have a vastly different work viewpoint. As of 1967, a total of 477 engaged in school work. We have no data as to current needs or salaries.

PUBLIC HEALTH NURSES

The field of public health attracts many nurses after graduation from nursing schools or have worked in a hospital for a time. To be a good public health nurse, one has to like people, be able to understand their problems, be a leader in a community and be able to enlist volunteers to aid in the many endeavors to improve the health level of the town, city, county or state. Additional study is usually required and many possess the degree of master in public health. There are 230 public health nurses reported on duty with a current need of 231 more. The Missouri Division of Health pays the beginning nurse, Class I, $448.00 to $600.00 and Class II, $519.00 to $694.00 per month. Supervisory Class I, receive from $572.00 to $765.00 and Class II Supervisors receive from $630.00 to $843.00 per month.

INDUSTRIAL NURSES

Many industries are finding that a nurse or nurses, employed as a part of the management team, returns dividends by cutting down time loss due to injury or illness of workers, by suggesting improvements in safety devices and operations, in counseling the employees and, sometimes, the family. As a rule, an industrial nurse is more mature than

the average in the profession, is a stable individual and is able to gain recognition and acceptance by the employees. The Division of Health reports a total of 367 employed in the many business establishments in Missouri and the trend is increasing. The industrial nurse is an employee of the industry and shares in the fringe benefits that accrue to employees. As a rule, the salary and fringe benefits vary according to the industry but the base pay is usually more than that paid by hospitals.

VISITING NURSES

There are active organizations of visiting nurses in St. Louis and Kansas City. In some other towns in the state, one or more of these nurses are employed. As a rule, these nurses practice their profession among the low income families. Visits are made at the request of physicians in order to aid in recovery of a patient. The duties run from bed side administration to counseling in family matters. Families and those persons able to pay for the services, are asked to pay an hourly rate. Those who cannot pay, are not turned away. The associations receive help in financing their operations from United Funds, gifts, donations and what is received from services given. In smaller towns or in a county, local groups contribute to the support through volunteer service and money. We have reports of 16 such nurses but are of the opinion that this should be doubled. From reports received, there appears to be less need currently for more nurses than in other catagories. The salary ranges are quoted to be about the median for all nurses.

PRIVATE DUTY NURSES

This nurse is utilized by physicians to take care of a patient at his home. In years gone by, when hospitals were not widely used, this category of nurses was in great demand and many nurses practised privately. With the wide acceptance of hospital care and the expense of the private duty nurse, there are not many calls for this type of duty nurses in the state. The charge is made on an hourly rate and the working day is not more than 8 hours.

TEACHERS IN NURSING SCHOOLS

The teachers in nursing schools are usually those with a four year degree and with considerable experience and maturity. In addition to the schools for registered nurses, some are employed in the schools for licensed practical nurses. The 32 schools for registered training report a current need for 65 full time and 6 part time instructors. The salaries paid by these schools for instructors is much above the average.

LICENSED PRACTICAL NURSES

In order to have assistants who have some nursing education and training in hospitals, in nursing homes, in industry and on private duty, the profession of the licensed practical nurse has evolved in recent years. As a rule, these women are older than the starting age of students in the registered nursing schools and often work only part time in their profession. Most schools will take applications up to the age of fifty.

Working under the director of a R.N., the hospitals report a total of 3,700 full time and 17 part time L.P.N.'s. The hospitals report need for 726 full time and 100 part time L.P.N.'s. The nursing homes, especially the practical home section, are using a great number of L.P.N.'s. The homes report a total of 370 full time and 198 part time employed. The homes that reported their needs, also, asked for 42 full time and 83 part time L.P.N.'s. Public health in Missouri uses twenty.

Salaries vary considerably in this field but as a general rule, a L.P.N. will receive one half of the salary of a R.N. in the same institution. A very great number practise privately and the pay is about three quarters of the charge of a R.N. The L.P.N. field offers an opportunity to many women who have raised their families and wish to go back into employment.

NURSE ASSOCIATIONS

The professional association is:
Missouri State Nurses' Association
Mr. W. D. Horn, Secretary
206 East Dunklin St.
Jefferson City, Mo. 65101

The association that is interested in many phases of nursing and accepts members who are not actually nurses, is:
Missouri League for Nursing
Mrs. Neil Chrismer, Secretary
3628 Steins St.
St. Louis, Mo. 63116

The association of licensed practical nurses is:
Missouri Association of Licensed Practical Nurses
Mrs. Florence Harris, Executive Secretary
1037 South Glenstone Ave.
Springfield, Mo. 65804

LICENSING NURSES

ALL NURSES, BOTH REGISTERED AND LICENSED PRACTICAL NURSES, MUST OBTAIN A LICENSE FROM THE MISSOURI STATE BOARD OF NURSES. Such licenses must be renewed annually.

The Board reports a total of 14,067 registered nurses in 1967. Apparently there are a considerable number who apply for renewal licenses each year but are not in active work.

The Board has issued 18,670 licenses for licensed practical nurses in 1967. The non-active in this class seems to be even higher than with registered nurses.

NURSING AIDS

After the licensed practical nurse, the next worker under the Registered Nurse in hospitals, is

the nursing aide. These are usually young people who wish to have an occupation in the health field and cannot afford the time and money needed for the two to four years of schooling. The typical nursing aide is a girl in her late teens or early twenties, who comes into a hospital and works under direction. Most hospitals have a school for these young women in addition to clinical training. They take the burden of routine duties from the R.N. and the L.P.N. Many find it possible to go on and become a L.P.N. through further study in school or even to acquire the necessary education to become a R.N. The Missouri hospitals report a total of 12,890 employed with a starting salary median of $200.00 and a top median of $270.00 per month.

In the nursing homes 2,033 nursing aides are employed. The majority of these have acquired training and experience in a hospital and then want to work in a nursing home. As a rule, the work is a nursing home is somewhat lighter and hours can be more easily arranged.

EDUCATION

To be a Registered Nurse requires one of the following plans: (1) a four year term with a baccalaurate degree, (2) a three year term with a diploma and (3) a two year term with an associate certificate. The last option is a recent development and is usually available in junior colleges which have a working agreement with neighboring hospital or hospitals. The majority of the three year schools are operated by hospitals. In the past, almost all nurses licensed were from hospital schools. However, the increasing cost of such an education has been a drain on hospital funds and many hospitals have or are planning to drop their nursing schools. The four year term with a degree is the goal of many more students than formerly. More good positions are open to such graduates and in many places, such a degree is needed for advancement to higher and better paying positions.

The applicant for any of the three plans must be a high school graduate and most schools require interviews with applicants. For the four year schools, the regular entrance requirements of the particular college or university must be met and the standard fees are required.

There are 32 schools of nursing in Missouri. Since some did not report data, we are unable to quote exact costs in all cases. As a general rule, the two year course in junior colleges is free of entrance and incidental fees. It is estimated that the two year term may cost the student from $300.00 to $2,000.00. The three year term, generally in hospitals or colleges affliated with neighboring hospitals, will cost from $1,000.00 to $3,000.00. The four year term will run from $4,000.00 to $7,000.00. In the four year schools, there is usually student assistance available including part time campus work. We suggest that any one wishing to be a nurse, consult the nearest school of the type desired. A nurse may so situated that she can start with an associate certificate, take extra work in a school nearby and so lead to a more advanced degree. Many local organizations give nurse scholarships and we suggest contacting your county sources for aid.

THE FOUR YEAR SCHOOLS

Avilla College
11901 Wornall Road
Kansas City, Mo. 64109

Sixty-seven now enrolled. Capacity can be expanded. College fees $450.00 per semester.

Central Missouri State College
Warrensburg, Mo. 64093

A part of the college curriculum with clinical training in a hospital.

Northeast Missouri State College
Kirksville, Mo. 63501

Affliated with three hospitals for clinical training. Operates on quarter system. Incidental fee $40.00 per quarter. Present enrollment 75 women and 3 men. Could expand for 75 more.

St. Louis University
School of Nursing
Sister Mary Stephen Noth SSM
St. Louis, Mo. 63103

Current enrollment 338 women and 4 men. Could expand to take around 600. University fees $700.00 per semester. Resident halls available.

University of Missouri
School of Nursing
Dr. Ruby Potter, Dean
Columbia, Mo. 65201

Present enrollment 310 women and 3 men. Space not available for expansion. Current estimate of cost from $1,475.00 to $1,650.00 per year. Resident halls available.

Washington University
School of Nursing
St. Louis, Mo. 63110

One of the divisions of the university. Entrance and student fees same as for other students.

ESTIMATE IS THAT 175 MORE STUDENTS COULD BE ABSORBED IN THESE FOUR YEAR SCHOOLS.

THE THREE YEAR SCHOOLS

Barnes Hospital
School of Nursing
Barnes Hospital Plaza
St. Louis, Mo. 63110

Present enrollment is 227 with additional capacity of 33. Cost of course is $1,715.00. Also offered is a twenty-four month training in anesthetics with certificate at end of term. Cost $200.00. Enrollment in this course is 23 women and 3 men. Cannot expand capacity for this training.

Burge-Protestant Hospital
School of Nursing
1423 North Jefferson St.
Springfield, Mo. 65802

Affliated with Drury College for college studies. Present enrollment is 167 with additional room for 3 more. Cost $1,650.00.

Deaconess Hospital
School of Nursing
6150 Oakland Ave.
St. Louis, Mo. 63139

Current enrollment is 168 women and 1 man. Could take 25 more. Cost $1,500.00 for term.

De Paul Hospital
School of Nursing
2415 North Kingshighway
St. Louis, Mo. 63113

Current enrollment of 159 is capacity of school. Cost $500.00 annually.

Jewish Hospital
School of Nursing
216 South Kingshighway
St. Louis, Mo. 63110

Forms a part of the hospital divisions. No other information.

Independence Sanitarium and Hospital
School of Nursing
1509 West Truman Road
Independence, Mo. 64050

Present enrollment is 121, the capacity of school. Cost is $1,540.00.

Kansas City General Hospital
School of Nursing
24th and Cherry St.
Kansas City, Mo. 64108

Forms a part of the University of Missouri Medical organization. No other data available.

Lutheran Hospital
School of Nursing
2638 Miami St.
St. Louis, Mo. 63118

Current enrollment is 208 women and 8 men. Capacity could be increased to another 100 students. Cost $1,130.00.

Methodist Medical Center
Eighth and Faraon Sts.
St. Joseph, Mo. 64501

No data available.

Missouri Baptist Hospital
School of Nursing
3015 New Ballas Road
St. Louis, Mo. 63131

Present enrollment is 47 and could be expanded by 33 more. Cost $1,575.00.

Research Hospital
Meyer Blvd. at Prospect St.
Kansas City, Mo. 64132

Current enrollment is 167 women and 4 men. Could be expanded to accomodate 25 more in each of the three classes. Cost $2,300.00.

St. John's Mercy Hospital
School of Nursing
615 South New Ballas Road
St. Louis, Mo. 63141

Present enrollment is 65. School closing June, 1968.

St. John's Hospital
School of Nursing
1235 East Cherokee St.
Springfield, Mo. 65802

No data available.

St. Louis Municipal School of Nursing
1515 Lafayette St.
St. Louis, Mo. 63104

The Homer G. Phillips and other city hospitals supply clinical training. Present enrollment 173 women and 23 men. Could be expanded to take 50 more. Cost $523.00.

St. Luke's Hospital
School of Nursing
Wornall Road at 44th St.
Kansas City, Mo. 64111

Current enrollment is 154 women and 2 men. Could expand to include 44 more. Cost $2,085.00.

St. Luke's Episcopal-Presbyterian Hospital
School of Nursing
5535 Delmar Blvd.
St. Louis, Mo. 63112

Present enrollment is 193 women. Only limited expansion.

Trinity Lutheran Hospital
School of Nursing
31st and Wyandotte Sts.
Kansas City, Mo. 64108

Current enrollment is 69 and could expand to take 25 more. Costs vary from $1,362.00 to $2,028.00.

THE ESTIMATE FOR ADDITIONAL STUDENTS IN THE THREE YEAR SCHOOLS IS 300 MORE OPENINGS.

PSYCHIATRIC NURSING SCHOOL
St. Vincent Hospital
7301 St. Charles Rock Road
St. Louis, Mo. 63133

Devoted to psychiatry, this school operates an advanced course of 8 weeks as a term for registered nurses interested in psychiatry. A total of 50 per term is admitted. Current enrollment is 49. Tuition cost for 8 weeks $100.00. Room and board for term is $100.00. Additional cost text books.

THE TWO YEAR SCHOOLS

Baptist Memorial Hospital
6601 Rock Hill Road
Kansas City, Mo. 64131

A twenty-four months school with associate certificate. Affliated with Metropolitan Junior College of Kansas City. Present enrollment is 48 women and 1 man. Capacity could be expanded for 52 more. Cost $320.00.

Junior College of St. Louis City and
St. Louis County
St. Louis, Mo. 63108

This includes Forest Park Community College and Meramec College. Both have eighteen months nursing course that enables graduate to take examination for R.N. license. Present enrollment is 547. Could be expanded about 10 per cent. Cost $150.00 per semester. Living cost extra.

Mercy Junior College
St. Louis, Mo. 63131

This school is operated in conjunction with St. John's Mercy Hospital. No other data available.

St. Mary's College of O'Fallon
O'Fallon, Mo. 63366

A twenty month term for associate certificate, sufficient for taking examination of Nursing Board. Present enrollment 16 women and 1 man. Could be expanded to take 20 to 30 in each class. Cost $1,550.00.

Southeast Missouri State College
Cape Girardeau, Mo. 63701

Eighty-eight weeks course for associate certificate. Affliated with hospitals in town. Present enrollment is 73, the capacity at present. Cost $400.00.

Missouri Southern College
Joplin, Mo. 64801

One of the accepted associate certificate schools. No other data.

THE ESTIMATE OF THE NUMBER OF PLACES FOR ADDITIONAL STUDENTS IN THE TWO YEAR SCHOOLS IS 125.

THE LICENSED PRACTICAL NURSING SCHOOLS

This is a field that is rapidly developing in the larger high schools and junior colleges to meet the demand for licensed practical nurses. As a rule the students are older than those of the registered nurse schools. The course in these schools runs usually for twelve months and the schools have working agreements with hospitals in their communities for clinical training.

Baptist Memorial Hospital
6601 Rock Hill Road
Kansas City, Mo. 64131

Affliated with Kansas City Public School System. Current enrollment is 39 and 9 more could be admitted. Cost $60.00.

Columbia Public Schools
Columbia, Mo. 65201

A forty-eight week term. Current enrollment 22, capacity of school. Cost is about $130.00.

Hannibal Vocational-Technical School
Hannibal, Mo. 63401

Affliated with Levering Hospital, Hannibal, Mo. A fifty-two weeks term. Current enrollment is 19 women and 1 man. Could take 10 more. Cost $115.00.

Mexico Public School System
Mexico, Mo. 65265

A fifty-two week term with enrollment of 13. Room for seven more. Cost $100.00.

Research Hospital and Medical Center
Meyer Blvd. at Prospect Ave.
Kansas City, Mo. 64132

A twelve month course with enrollment of 41 women and 1 man. Room for 18 more.

St. Mary's Hospital
6420 Clayton Road
St. Louis, Mo. 63117

A twelve months course with 43 enrolled, capacity of school. Cost $425.00.

LICENSED PRACTICAL NURSING SCHOOLS WITH NO DATA AVAILABLE BUT RECOGNIZED BY MISSOURI STATE BOARD OF NURSING.

Brookfield Vocational School, Brookfield, Mo. 64628
Lead Belt Technical School, 10 Lake Drive, Bonne Terre, Mo. 63628
Manual High-Vocational School, Kansas City, Mo. 64106
Moberly Public Schools, Moberly, Mo. 65270
Jefferson City Public Schools, 609 Union St., Jefferson City, Mo. 65101
N.S. Hillyard Technical School, St. Joseph, Mo. 64503
Poplar Bluff Public Schools, Poplar Bluff, Mo. 63901
Sedalia Public Schools, Sedalia, Mo. 65301
Springfield Voc.-Technical School, Springfield, Mo. 65802
Franklin Technical School, Joplin, Mo. 64801
(Jennie) Lund School, 101 North Forrest St., Independence, Mo. 64050
Mineral Area Junior College, Flat River, Mo. 63601
Nevada Public Schools, Nevada, Mo. 64772
Kirksville Public Schools, 401 East McPherson St., Kirksville, Mo. 63501
O'Fallon Technical School, St. Louis, Mo. 63110
Rolla Vocational-Technical School, Rolla, Mo. 65401
Sikeston Public Schools, Sikeston, Mo. 63801
St. Mary's Hospital, 101 Memorial Drive, Kansas City, Mo. 64108
Trenton Junior College, Trenton, Mo. 64683

AN ESTIMATE OF THE OPENINGS FOR MORE STUDENTS IN THE LICENSED PRACTICAL NURSING SCHOOLS IS 125.

NURSING AIDES SCHOOLS

The majority of the larger hospitals have their own schools for education and training of nursing aides. Three schools were reported, in addition to hospital schools.

Columbia Public Schools, Columbia, Mo. 65201
South Central Voc. Technical School, West Plains, Mo. 65775
Franklin Technical School, Joplin, Mo. 64801

ORTHOTICS AND PROSTHETICS

Persons practicing the paramedical service of orthotics and prosthetics, fabricate and fit artificial limbs and braces for limbs lost or, in orthopedic cases, for support. As a rule, they work with a surgeon's or physician's prescription. They work in hospitals, rehabilitation centers, private shops and in governmental institutions such as Veteran hospitals. Naturally persons with manual skills and with a talent for making things, find useful employment in this field. We can cite only the 1965 report of the American Board for Certification in Orthotics and Prosthetics, which states there are in the U.S., 1,113 certified by the Board. It is thought that there are a number of others engaged in the occupation but are not certified. We have no data on the earnings of such craftmen.

SCHOOL
University of Missouri
Medical Center
Mr. James Verhoff
Columbia, Mo. 65201

A three year study course in Prosthetics with a degree given to the graduate. A two year course in Orthotics with a certificate given. To secure registration, the student after graduating, must take an examination of the American Board for Certification in Orthotics and Prosthetics, 919 18th St., Washington, D.C. 20006.

OCCUPATIONAL THERAPISTS

Occupational therapy is the use of purposeful activity as treatment in the rehabilitation of physically or emotionally disabled persons. The therapist determines the objectives of the treatment for an individual which would increase the capability for an independent life and developing total functions to a maximum level for future job training and employment. The therapist is found in hospitals, in rehabilitation centers, in children service centers and sometimes in private practice.

The occupational therapists in the Kansas City area are members of the Kansas Occupational Therapy Association, the secretary is Mrs. Linda M. House, 112 West 90th St., Kansas City, Mo. 64114. There are 29 members listed either living in Missouri and working or living in Kansas but working in Missouri.

The rest of the state is within the jurisdiction of the Missouri Occupational Therapy Association, Mrs. Nancy Morgan, president, 1022 Joanne St., Glendale, Mo. 63122. A total of 162 members are listed with ninety in active employement.

As of September 1967, the Council on Practice of the American Occupational Therapy Association reported that 115 members were actually working in Missouri.

Salaries are from $5,800.00 for beginners to possible a top of $20,000.00 for highly skilled operators in well situated places. The Missouri hospitals report that they need 33 full time and 5 part time occupational therapists.

SCHOOLS
University of Missouri
College of Education
Miss Marylin Blanke, OTR
Columbia, Mo. 65201

A four year course of study with the first two years for basic education and the last two for clinical education in conjunction with the Medical School. The present enrollment of 5 freshmen and 5 sophomores could be expanded as need arises. The requirements for admittance are the same as those for other students. At graduation, a degree of B.S. in Occupational Therapy is granted. Incidental fees, student union fees, room and board in a resident hall, books and supplies amount to about $617.50 per semester.

Washington University
School of Medicine
Miss Martha A. Matthews
4567 Scott Ave.
St. Louis, Mo. 63110

A two year school of occupational therapy with the requirement that the student have two previous years of planned preliminary education at an accredited college or university. The capacity of the school is 25 for each of the two classes. Current enrollment is for a total of 29 full time and 4 part time students. In addition to the two years of preliminary college work, a health certificate and three references are required. Degree is B.S. in Occupational Therapy. Tuition fees are $900.00 for 1st, 2nd, and 3rd semesters. Clinical semester $600.00. Health insurance, laboratory fees and uniforms estimated at $95.00 per semester. Room $225.00 and food $440.00 per semester.

THE TWO SCHOOLS ESTIMATE THAT THEY COULD ACCEPT 50 MORE STUDENTS.

OPTOMETRISTS

An optometrist specializes in the examination of eyes for conservation and improvement of vision. He gives prescriptions for lenses, fits glasses to the contour of the face and fits contact lenses. He

has training for detecting diseases of the eye. He is not an ophthalmologist with a degree in medicine.

All optometrists practicing in Missouri must have a license issued by the Missouri State Board of Optometry, 7447 Holmes St., Kansas City, Mo. 64131. From the 1967 report of this Board, there are 406 licensed optometrists in the state. In the accompanying charts showing distribution and needs in each county, please notice that there are 30 counties which do not have an optometrist. It would appear that there is plenty of room in Missouri for more members of the profession. It is estimated that the active optometrist can earn from $9,000.00 and up annually.

The state association is:
Missouri Optometric Association
Mr. Charles L. Jones, Secretary
238 East High St.
Jefferson City, Mo. 65101

Unfortunately for Missouri residents, there are no schools of optometry in the state. The nearest ones are:

Illinois College of Optometry
Chicago, Illinois
(A private school)

Indiana University
Bloomington, Indiana
(A public school)

Southern College of Optometry
Memphis, Tennessee
(A private school)

All schools require six years for receiving the degree, two years in preliminary planned schooling and four years of professional education and training.

PHARMACISTS

A pharmacist prepares and dispenses medicines based on the prescriptions of physicians. He may also work for a pharmaceutical company in its offices, laboratory or in the field.

On January 1, 1967, the licensing board reported a total of 2,205 pharmacists actively engaged in the profession. Six hundred eighty-six were owners of their own business; 275 were partners and 1,244 were employed in pharmacies they did not own. A total of 225 were in hospital pharmacies, 51 in manufacturing and wholesale places, 109 in field services for firms and 10 in teaching or governmental work. In addition, there are 879 registered (1965-66) who are not classified by employment.

The accompanying charts show their distribution in the state except in St. Louis City, St. Louis County, Kansas City and Jackson County where we were unable to secure accurate data.

There is a growing need for pharmacy school graduates since 30 per cent of those now working are over 60, and 20 per cent over 65 years of age. The day of the practicing physician preparing most of his medicine himself, and producing them from his "black bag", has vanished, and the physician today gives a prescription to his patient for medicine and the pharmacist fills it. It is estimated that since 1960, there has been an actual decrease of 300 in the number licensed and actively working in Missouri. The two schools of pharmacy in Missouri join in saying that there is a serious and growing shortage, and that there is plenty of room for the new graduate in the state.

For the new graduate who is seeking employment, the range of salary is somewhere between $600.00 and $1,000.00 per month. As he grows in experience, possibly securing an interest in the business or becoming a manager in a chain pharmacy, his income rises rather rapidly.

The two Pharmacy Schools in Missouri are:

School of Pharmacy
University of Missouri at Kansas City
Dr. W. A. Strickland, Jr., Dean
5100 Rockhill Road
Kansas City, Mo. 64110

The student desiring to enter the school must have completed two years of college with prescribed courses satisfactorily passed. Three years are then spent in the Pharmacy School. The Bachelor of Science in Pharmacy is given upon graduation. The graduate must then apply to the licensing board for a license to practice his profession.

The tuition for Missouri students is $187.50 per semester. The school estimates that living costs over and above tuition, are about $1,500.00 per year. There are various financial assistance programs for many students. Apply to the School for a list of these.

The capacity of the School is 200 undergraduates and 36 graduate students. The 1967 enrollment is 143 undergraduates and 24 graduates.

St. Louis College of Pharmacy
Mr. Charles C. Rabe, President
Euclid Avenue and Parkview Place
St. Louis, Mo. 63110

The college is a private school offering the entire five years of study required for graduation. The student may enroll upon graduation from an approved high school. Transcript of the high school record should be sent to the Registrar of the College. A health record, completed by the student's physician is required. The ACT test of the student should be made in his senior year in high school. After the first two years of pre-prefessional studies, the completion of at least 45 semester hours with a grade average of C or above, the student will enter the three year course of professional education. Graduates of the five year course will receive the degree of Bachelor of Science of Pharmacy. Such graduates then must apply to the licensing board for a license to practice his profession.

The tuition fees for Missouri residents are $830.00 per year for the first two years and $1,400.00 annually for the next three years. It is estimated by the School that room and board in a dormitory will be $900.00 for the two semesters.

Additional living costs may be around $500.00. Financial aids are available upon application to the College.

The capacity of the school is 600 students. The 1967 enrollment is 562, with 65 of these women.

The association is:

Missouri Pharmaceutical Association
Mrs. Cora D. Cox, Secretary
601 Central Trust Bldg.
Jefferson City, Mo. 65101

PHYSICAL THERAPISTS

The physical therapist aids a patient placed in his care, in the restoration of body functions following injuries or disease. The therapeutic properties of exercise, heat, cold, electricity, ultra sound, and massage are utilized in treatments. Upon referral by a physician, the physical therapist evaluates the patient and plans a program to reach the maximum performance within the patient's capability. These therapists practice in hospitals, in rehabilitation institutions, in crippled children's service centers, and sometimes establish a private practice.

The accreditation is through the American Physical Therapy Association. There is no registration required in Missouri laws.

The membership in the two sectional associations is 169. The data from hospitals in Missouri did not separate the therapists by disciplines, the hospitals reported a total of 324 full time and 14 part time therapists. The hospitals also reported a need of 50 full time and 14 part time physical therapists.

As reported by the American Physical Therapists Association, the median salary in hospitals for the area in which Missouri is listed is $7,500.00 annually; for rehabilitation institutions, a median of $7,400.00 annually; for crippled children's service centers, a median of $6,700.00. The 50 hospitals in Missouri reporting use of physical therapists list a beginning median salary of $501.00 per month with a top median of $625.00.

The state is divided into two chapters of the American Physical Therapy Association:

Western Missouri Chapter
Mr. James E. Roetto, President
St. Joseph Hospital
St. Joseph, Mo. 64501

Eastern Missouri Chapter
Sister Wilma Marie Haslag, S.S.M., President
St. Louis University School of Medicine
1402 South Grand Avenue
St. Louis, Mo. 63104

SCHOOLS

St. Louis University
School of Nursing and Health Services
Department of Physical Therapy
Sister Mary Imelda, S.S.M.
1325 South Grand Avenue
St. Louis, Mo. 63104

The school offers a four year course with the degree of Bachelor of Science in Physical Therapy upon graduation. The first two years are preliminary studies adapted for the more intensive program in the last two years. Capacity is 120 with 30 in each class. Present enrollment is 116.

Admission is based upon the general admission requirements of a student, and requires accredited high school graduation.

Tuition is $700.00 per semester. Living costs are estimated at $550.00 per semester plus room.

University of Missouri
College of Education
Mr. Raymond E. Hogue
Director of Physical Therapy
Medical Center
Columbia, Mo. 65201

A four year course with a degree of Bachelor of Science in Physical Therapy is provided upon graduation. The first two years are designed to give a basic education, but with particular reference to the course in the following two years. The junior and senior years provide clinical experience. The capacity of the school is 110 and is currently filled to capacity.

Admission is based on the general requirements for entrance in the University. There are no tuition fees for Missouri residents. Incidental fees $165.00; student union fee $10.00; books and supplies $50.00; room and board in residence halls $392.50 for each semester.

Washington University
School of Medicine
Department of Physical Therapy
St. Louis, Mo. 63110

A four year course with a degree of Bachelor of Science in Physical Therapy is given upon graduation. The first 60 hours may be taken in any accredited college of liberal arts, with an accumulative average of C plus for the first 60 hours.

Tuition is $1,890 for the junior year, $1,590 for the senior year. Living costs are estimated at $500.00 per semester plus the cost of room.

RADIOLOGIC TECHNOLOGISTS

This person assists the physician in X-ray and radiation diagnostic procedures and treatment. The schools for the discipline are those approved by the American Medical Association. There is no licensing requirement in Missouri. In general, three classes are recognized: (1) general X-ray, (2) nuclear medicine using isotopes and (3) radiation therapy technology. It is estimated that about 25 per cent of the active members work in hospitals. The others are in dental and physician offices, in private medical laboratories and in various governmental institutions and offices.

In the reports from Missouri hospitals, the medical technicians and radiologic technologists

were listed together and we are unable to accurately separate them. The hospitals report 1,875 employed. For unfilled needs, places for 64 full time and 6 part time radiologic technologists were listed.

The 96 hospitals reporting this service, stated the starting median salary was $400.00 with a top median of $500.00 per month. The non-registered person received about one hundred dollars per month less than his registered colleague. Information from other sources places the beginning salary at $500.00 with a possible top of $1,000.00 per month.

The Missouri society reports a membership of 972 members with an estimate of possibly 25 to 30 per cent being not active. The society is:

Missouri Society of Radiologic Technologists
Mr. C. S. Vincent, President
2019 Lowell Drive
Jefferson City, Mo. 65101

EDUCATION

As a general rule, the schools of the discipline offer a two year course that allows the student to take an examination given by the American Registry of Radiologic Technologists, Minneapolis, Minnesota. If he passes, he receives the right to use the insignia of Registered Technologist (R.T.). Three schools provide a four year course of study with a higher degree. These require regular student admission and a planned cirriculum with the degree with clinical work the last two years. This provides training for teaching and advancement in the profession beyond that of the two year term.

FOUR YEAR SCHOOLS

St. Louis University
Sister Mary Alocoque Anger SSM, R.N.
St. Louis, Mo. 63103

William Jewell College
Liberty, Mo. 64068

University of Missouri
College of Education
Medical Center
Columbia, Mo. 65201

The fees for these schools are those regularly required of all students and the admittance requirements are equal to others in the schools. These three schools can accept 90 more students.

TWO YEAR SCHOOLS

Barnes Hospital
Barnes Hospital Plaza, St. Louis, Mo. 63110
Baptist Memorial Hospital
6601 Rock Hill Road, Kansas City, Mo. 64131
Burge-Protestant Hospital
1423 N. Jefferson St., Springfield, Mo. 65802
Deaconess Hospital
6150 Oakland Ave., St. Louis, Mo. 63139
De Paul Hospital
2415 N. Kingshighway, St. Louis, 63113
Forest Park Community College
St. Louis, Mo. 63118
Homer G. Phillips Hospital
2601 Whittier St., St. Louis, Mo. 63113
Independence Sanitarium and Hospital
Independence, Mo. 64106
Levering Hospital
Hannibal, Mo. 63401
Menorah Medical Center
4949 Rock Hill Road, Kansas City, Mo. 64110
Missouri Baptist Hospital
3015 New Ballas Road, St. Louis, Mo. 63108
North Kansas City Hospital
2800 Hospital Drive, North Kansas City, Mo. 64116
Research Hospital
Meyer Blvd. at Prospect Ave., Kansas City, Mo. 64132
St. Elizabeth Hospital
109 Virginia St., Hannibal, Mo. 63407
St. Francis Hospital
825 Good Hope St., Cape Girardeau, Mo. 63701
St. Luke's Episcopal-Presbyterian Hospital
5535 Delmar Blvd., St. Louis, Mo. 63112
St. Luke's Hospital of Kansas City
Wornall Road at 44th St., Kansas City, Mo. 64111
St. Louis County Hospital
601 Brentwood St., Clayton, Mo. 63501
St. Mary's Hospital
101 Memorial Drive, Kansas City, Mo. 64108
Southeast Mo. Hospital
1701 Lacey St., Cape Girardeau, Mo. 63701
University of Missouri, Medical Center
Columbia, Mo. 65201

AN ESTIMATE OF THE OPENINGS FOR MORE STUDENTS IN THESE TWO YEAR SCHOOLS AMOUNTS TO 110.

SANITARIANS

The sanitarian is primarily occupied with the inspection and enforcement of laws, regulations and rules for maintaining community health. A large part of their actual work is the development of sanitary standards and regulations through education, enlightenment of the owners and operators of establishments, and persuasion of people connected with the various establishments to observe better health practices and operations.

All of the following require the attention of the sanitarian: Water supply and excrea disposal, handling of milk, meat, and other foods, building construction to provide healthful conditions in plants, the control of mosquitoes, flies, and other insects, rat control, accident prevention devices, and routines and control over radiation.

The larger majority of sanitarians are found in public health work, in the city, county, and state. The Missouri Division of Health employs 81 sanitarians. The cities and counties with public health services employ about the same number. The Division of Health reports that its current need for such persons is 113 full time and 42 part time. The city and county needs could be put at about one

half of this number.

The Missouri Division of Health lists three classes of sanitarians with salaries of the beginning class $494.00 to $661.00; second class at $572.00 to $765.00; and third class $661.00 to $885.00 per month.

The American Public Health Association sets the standard for the education of sanitarians and also recommends five classes of employment; a person progresses as his experience and capability warrant. The Association requires four years of study, the first two in general education but aimed at preparing the student for the last two years in technical education for his discipline.

In Missouri, there are two sanitarian organizations, with combined membership of 240. There are a number of dual memberships in the two membership rosters. The two associations may merge into one with a reasonably short time.

Missouri Association of Milk and Food Sanitarians
Mr. Erwin P. Gadd, Secretary
Division of Health
State Office Building
Jefferson City, Mo. 65101

Missouri Sanitarians Association
Mr. Milford D. Plummer, President
137 Forest Hill
Jefferson City, Mo. 65101

The education of the sanitarian focuses upon food and biological science. There is no registration for a license in Missouri. The student who wishes to pursue work in this discipline, should consult his nearest college for information about food and biological science programs. The only school for which we have itemized information is:

University of Missouri
Dr. James E. Edmondson
Professor of Food and Nutrition
Columbia, Mo. 65201

There is a special course designed for a 4 year period that affords a B.S. and M.S. in Sanitary Science. 7 to 10 students can be included. Entrance is under the general regulations and fees of the University.

SANITARY ENGINEERS

The sanitary engineer is becoming more and more important in the sanitation field as more and more people are crowding into the larger towns and cities of Missouri. Directors of public works, waste water managers, water supply directors, solid waste disposal plants, environment facilities, and public health services are some of the various responsibilities of people in this field. The many phases of environmental control are open to many more of this profession.

A list of 46 sanitary engineers has been supplied by the Bureau of Environmental Services of the Missouri Division of Health. A doubling of the number is acutely required to fill all openings that are now in existence.

There is no association of the profession in Missouri. Many belong to the sanitation associations in lieu of their own organization.

Up to the present time, there are few formal schools for the education and training of sanitary engineers. Many young people graduating from the civil engineering schools in the state go into this field. The Missouri Division of Health has established four classes of sanitary engineers. The range in salary for Class I, the beginning group, is from $630.00 to $843.00 per month. Class IV range is from $975.00 to $1,306.00 per month. Sanitary engineers in other employment probably receive higher salaries than those quoted.

SCHOOLS

University of Missouri
College of Engineering
Professor Lyndon J. Murphy
Columbia, Mo. 65201

University of Missouri at Rolla
Civil Engineering Department
Professor J. H. Senne
Rolla, Mo. 64501

St. Louis University
Civil Engineering
Professor John McCarty, Dean
St. Louis, Mo. 63103

Washington University
Professor J. W. McKenzie, Dean
Engineering Department
St. Louis, Mo. 63110

SOCIAL WORK

The social worker, who has the special ability and training to understand human relationships and viewpoints, is in a rapidly developing field. This field has great meaning for persons who wish to be of service to their fellow man. The divisions in the field are, as of this date:

1. Child and family welfare, usually found in the larger cities, devoted to counseling children and parents about income, health needs, family living, disease prevention, mental disturbances and referral to medical sources for treatment and care when indicated.
2. Correctional work with law breakers as part of programs in correctional institutions.
3. Aiding children with educational problems in school.
4. Engaging in public assistance by determining eligibility for assistance grants and checking for compliance with welfare regulations.

5. Community organization: working towards defining objectives and needs, establishing working relationships among various groups, and being a leader in solving community problems.
6. Psychiatric social work in mental illness and mental disturbances
7. In hospitals, nursing homes, treatment centers, aiding patients and their families to understand treatments and operations, costs of medical care, and need for therapy where benefits may be expected. In other words, they are the "Holders of Hands and Comforters".

We are concerned with those in the sixth and seventh categories. We have no accurate estimate of the number of social workers in these two sections other than some data from national sources. In 1964, it was estimated that 1,485 hospitals in the United States employed 9,116 social workers. A further estimate was that 65 per cent of these were graduated professional people. A number of the larger hospitals and a few of the nursing homes in Missouri use this service for more patient help. The exact number is not attainable. Those in this discipline, especially in the professional schools, estimate that the number of graduates could be doubled without causing undue crowding.

The range in salaries that can be expected by graduates seems to be $6,000.00 starting annually, to a possible top of $20,000.00.

The state is divided into three chapters of the Council on Social Work, 345 East 46th St., New York, N.Y. 10017. The Kansas City Chapter comprises the counties of Buchanan, Cass, Clay, Jackson, Johnson, Platte, and Ray and has a membership roster of 200. Address:

Mrs. Dorothy H. Johnson, President
2632 West Paseo Blvd.
Kansas City, Mo. 64108

The St. Louis Chapter includes St. Louis City and the counties of St. Louis, Jefferson, and St. Charles. We were unable to secure any information as to the membership. A part time temporary secretary is at the:

Greater St. Louis Health and Welfare Council
417 North 10th St.
St. Louis, Mo. 63101

The Central Chapter takes in all of the rest of the state. It reports a membership of 190.

Central Missouri Chapter
Dr. Thompson R. Fulton, President
School of Social Work
University of Missouri
Columbia, Mo. 65201

EDUCATION

The student who wishes to become a graduate social worker and eligible for membership in one of the three chapters and the national association, needs six years of study. The requirement for entrance in social work schools is a 4 year B.S. or A.B. degree from an accredited college with emphasis on related study. Any of three school listed below can be attended for the first four years, and the course of study can be planned with the aid of the School of Social Work counselors. A two year term as a graduate student earns the Master's degree and provides the starting point for a career.

SCHOOLS

St. Louis University
School of Social Work
Bernard J. Coughlin S.J., Dean
St. Louis, Mo. 63103

The capacity of this school is 170. The current enrollment is 154.

The student is required to have a bachelor degree from a recognized college or university and demonstrate that he has maintained an average of B in college. A personal interview is required.

Fees for tuition are $775.00 per semester with other fees of $20.00 per semester. A residence hall is available.

University of Missouri
School of Social and Community Services
Dr. Arthur J. Robins, Dean
Professional Building
Columbia, Mo. 65201

It is recommended that a student wishing to receive a Master's degree in Social Work at the University, enroll in the College of Arts and Sciences for a four year course with the advice of the School of Social Work counselors as to the various subjects. Upon receiving the B.S. or A.B. degree, he may enroll in the graduate section of the School of Social Work. Entrance requirements in the College of Arts and Science are those needed for entry in any University school or college. Fees are $175.00 per semester and resident halls afford room and board.

Washington University
George Warren Brown School of Social Work
Wayne Vasey, Dean
St. Louis, Mo. 63130

The school has the capacity of 200 full time students for the master and doctor degrees. The current enrollment is 189 full time and 31 part time. Of these, 177 are working towards a master and 12 towards a doctor degree.

Fees are $800.00 per semester. Living cost for the 9 months runs from $3,700.00 to $3,900.00.

SPEECH PATHOLOGISTS AND AUDIOLOGISTS

All speech pathologists and audiologists have a common aim in helping handicapped children and adults to communicate in as nearly a normal fashion as may be possible to achieve. Those who stutter and lisp, the slow talkers, those with cleft palates, cerebral palsy cases and impaired hearing, all are candidates for aid in this field. In many cases of stroke, the capacity to communicate must be cultivated by the therapist. In most cases where the handicap is due to disease or injury, the therapist works under direction of a surgeon or physician.

The Missouri State Department of Education, through its provisions for special schools for the handicapped children of school ages, and with its Training Program for even more handicapped children, uses a very considerable number of these therapists. The Missouri Division of Health cooperates with the state wide voluntary agencies, whose field of interest is crippled children, in staffing clinics with speech pathologists and audiologists. The Missouri Division of Mental Diseases employ many in the mental hospitals.

Many hospitals are increasing the use of these skilled persons. The nursing homes are being encouraged to employ more people in discipline. It appears that many more openings will be available for graduates as the years go by.

We are principally interested in the speech pathologists and audiologists that are employed in hospitals, nursing homes, and clinics operated by the voluntary organizations. We regret that we are unable to make any accurate estimate of the total number in this particular class.

The salary range, according to the Missouri State Speech and Hearing Association, seems to be from $4,600.00 to $20,000.00 annually. The Missouri Division of Health quotes its range for speech therapist No. 1 as from $519.00 to $694.00 per month and for No. 2, $600.00 to $803.00.

Since we are interested in the therapists dealing with patients in hospitals, nursing homes, and clinics for children, we have confined our discussion of education and employment distribution to members of the Missouri Speech and Hearing Association, an affiliate of the American Speech and Hearing Association. For more detailed information, please contact:

Missouri State Speech and Hearing Association
Dr. William C. Healey, President
Special School District
9820 Manchester Road
St. Louis, Mo. 62119

The membership in this state association has the entrance qualification of either:

1. A master's degree in Speech Pathology and/or Audiology

OR

2. A Bachelor of Science with major in Speech Pathology and/or Audiology prior to December 31, 1968.

This means that a student must complete requirements for a bachelor degree and complete graduate work for a master's degree.

SCHOOLS

Central Institute for the Deaf
Dr. S. Silverman, Director
818 Euclid Avenue
St. Louis, Mo. 63110

This school is affiliated with Washington University through an Advisory Board. Requirements for admission and examinations are made by the University. Capacity is 50, present enrollment is 45.

The Institute's Department of Speech and Hearing offers courses in two types of education and training. One is for professional training in education of the deaf, in speech pathology, and in audiology. The second is intended for students pursuing advanced studies and degrees in Audiology, Neurobiology, or Psychology. The first course is adapted for those who are service oriented. A high degree of clinical training is included.

Undergraduates for admission to the Institute must have completed about 64 hours in prescribed subjects in an accredited college of arts. For graduation, 160 hours are needed for the B.S. in Speech and Hearing.

Tuition is $500.00 per semester. Books and supplies may cost $125.00 for the entire course of study. Room and board, minimum of $880.00.

Central Missouri State College
Dr. Lin Welch, Director Speech and Hearing Clinic
Warrensburg, Mo. 64093

Four year college course in speech pathology and audiology. Degree of B.S. in Education with teaching certificate of Speech Pathology. Master's degree may be taken at the college for accreditation by American Speech and Hearing Association.

Admission is under the college rules and fees are minimum.

Fontbonne College
St. Louis, Mo. 63105

This is a Catholic school for women. Application must be from an accredited high school and a Scholastic Aptitude College Entrance Test is required. The college provides speech pathology courses as well as education and theatre. Four years required for B.S. degree.

Tuition is $650.00 per semester with other general fees about $25.00. Resident hall cost is from $450.00 to $525.00 per semester.

Northeast Missouri State College
Orville E. Bower, Registrar
Kirksville, Mo. 63501

A four year course with speech correction as a major for the B.S. degree. The student has considerable clinical practice in the last year. Operates by the quarter system. Applicant must be from an accredited high school.

Incidental fee $40.00 per quarter plus $6.50 Student Union fee. Resident hall is from $175.00 to $198.00 per quarter.

Southeast Missouri State College
Dr. M. G. Lorberg Jr.
Department of Speech Clinic
Cape Girardeau, Mo. 63701

Four year course in speech correction and training program. Accredited high school graduation is required. B.S. in Education degree. Master's degree is also given for more study.

Incidental fee $80.00 per semester. Resident hall from $295.00 to $375.00 per semester.

University of Missouri
Department of Speech and Dramatic Art
Dr. Charlotte G. Wells
Columbia, Mo. 65201

A four year course in speech pathology and audiology leading to a B.S. in Education or A.B. The professional training and education requires one academic year plus a summer term as a minimum. The Master of Arts degree provides qualification for certification by the American Speech and Hearing Association.

Admission is the same as for other schools and colleges of the University. Incidental fee $175.00 per semester. Resident hall cost is about $425.00 per semester.

St. Louis University
Dr. Barbara Seelye, Director Speech and Hearing
St. Louis, Mo. 63103

We have no information concerning this school but presume that a 4 year course, like the other schools, is basic education.

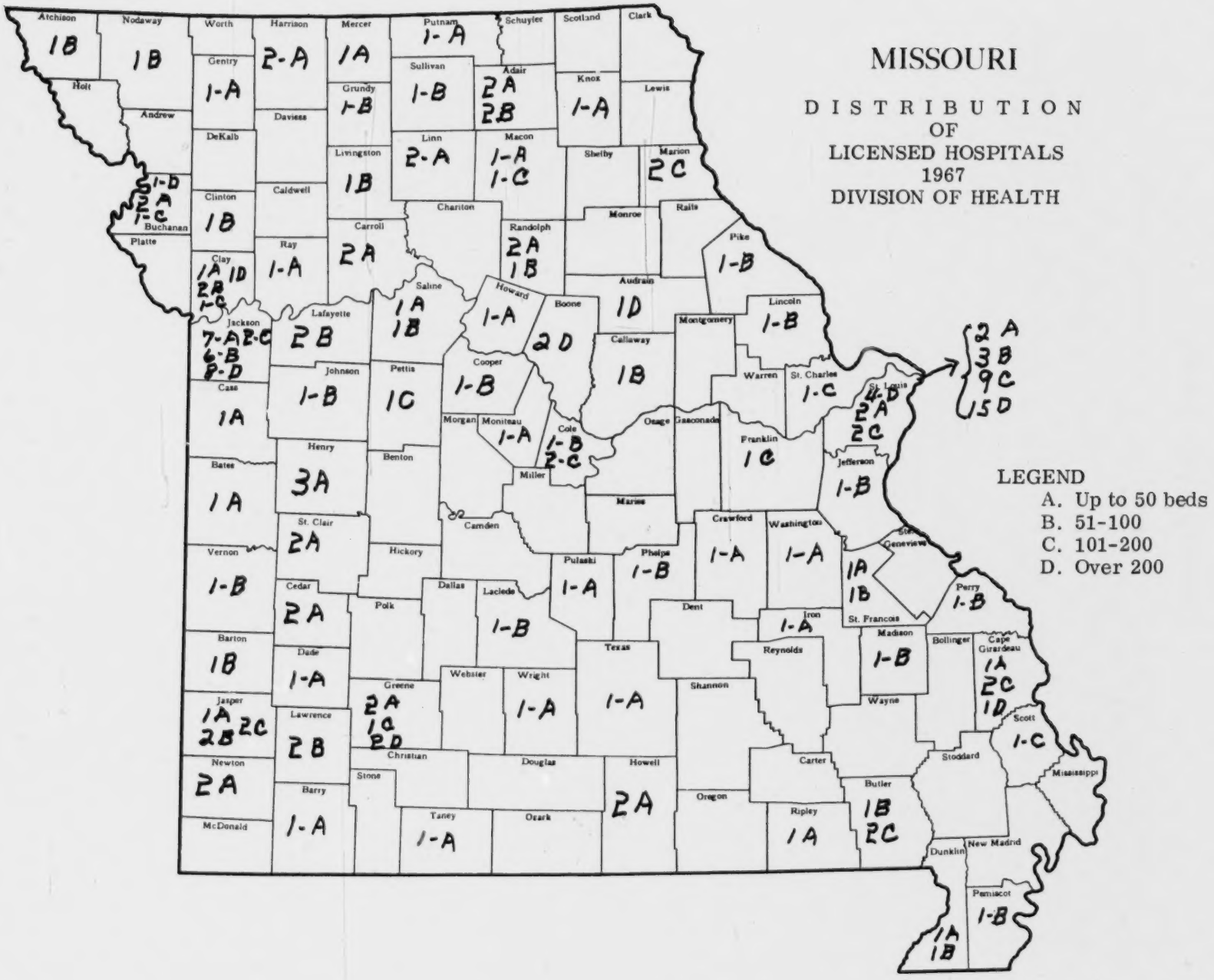
CHARTS AND MAPS

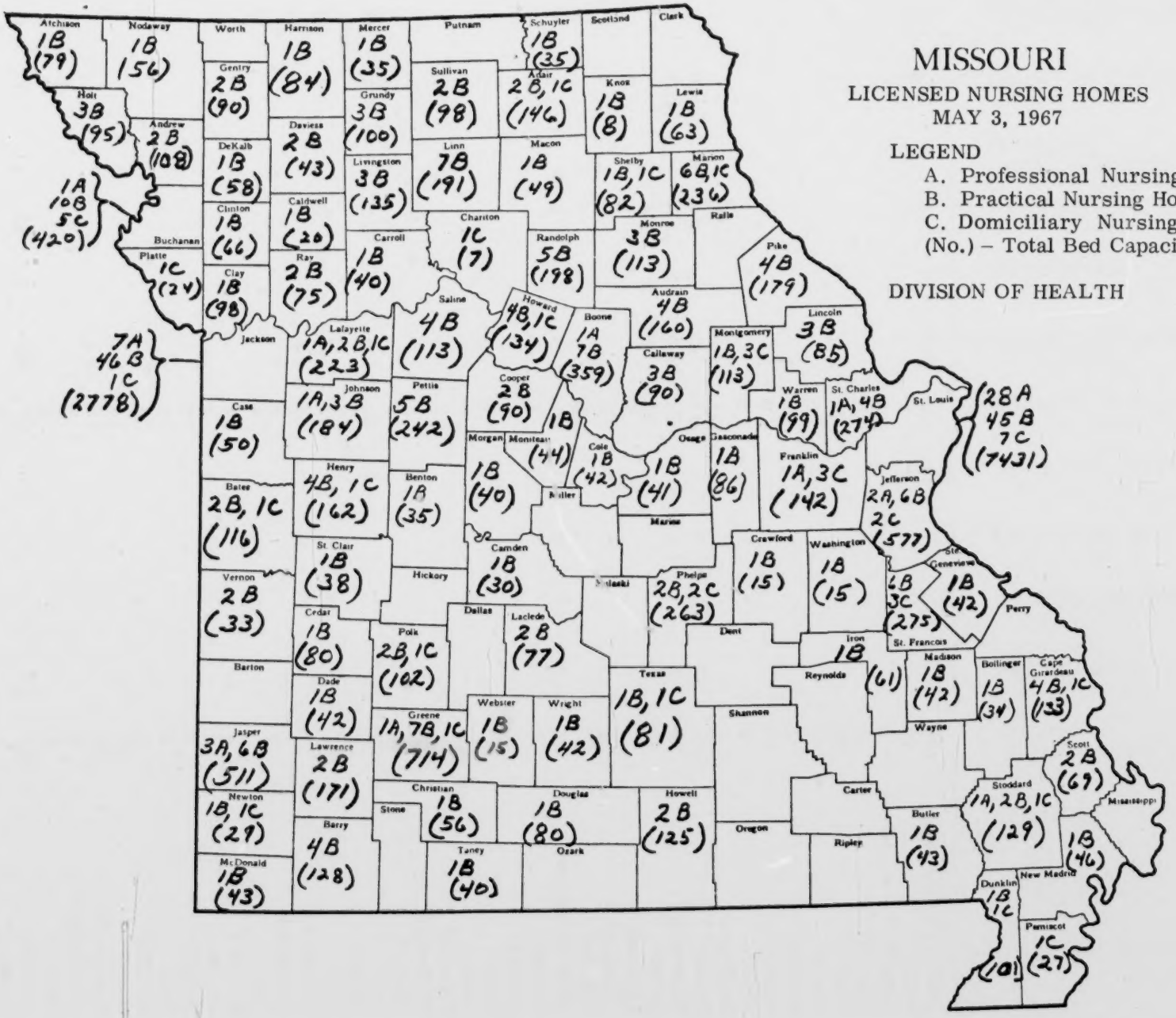
The following two maps show the distribution of the licensed hospitals and nursing homes. Please note the legends as to capacity, number and total beds.

The charts picture the health manpower employment and the current budgeted needs of the health disciplines, county by county. In using these charts for information, we suggest use of a ruler or straight edged sheet of paper.

The majority of the columns show the discription of the discipline, the current enrollment, the current needs in self-explanatory headings. A few have abbreviations as to associations. We list these as follows:

A.O.T.A. – American Occupational Therapy Association
M.A.M.R.L. – Missouri Association of Medical Record Librarians
M.P.T.A. – Missouri Physical Therapy Association
M.T. – Missouri Society of American Medical Technology
N.A.S.W. – National Association of Social Workers


MISSOURI
DISTRIBUTION
OF
LICENSED HOSPITALS
1967
DIVISION OF HEALTH
LEGEND
A. Up to 50 beds
B. 51-100
C. 101-200
D. Over 200
Atchison 1B
Nodaway 1B
Worth
Harrison 2-A
Mercer 1A
Putnam 1-A
Schuyler
Scotland
Clark
Holt
Gentry 1-A
Sullivan 1-B
Adair 2A 2B
Knox 1-A
Lewis
Andrew
Daviess
Grundy 1-B
DeKalb
Linn 2-A
Macon 1-A 1-C
Shelby
Marion 2C
Livingston 1B
Caldwell
Clinton 1B
Chariton
Monroe
Ralls
Buchanan 1-D 2A 1-C
Carroll 2A
Randolph 2A 1B
Pike 1-B
Platte
Ray 1-A
Clay 1A 1D 2B 1-C
Saline 1A 1B
Howard 1-A
Audrain 1D
Boone 2D
Lincoln 1-B
Jackson 7-A 2-C 6-B 8-D
Lafayette 2B
Callaway 1B
Montgomery
Johnson 1-B
Pettis 1C
Cooper 1-B
Warren
St. Charles 1-C
St. Louis 4-D 2A 2C
Cass 1A
Morgan
Moniteau 1-A
Cole 1-B 2-C
Osage
Gasconade
Franklin 1C
Jefferson 1-B
Henry 3A
Benton
Miller
Maries
Batee 1A
Camden
Crawford 1-A
Washington 1-A
Ste. Genevieve 1A 1B
St. Clair 2A
Hickory
Pulaski 1-A
Phelps 1-B
Perry 1-B
Vernon 1-B
Cedar 2A
Polk
Dallas
Laclede 1-B
Dent
Iron 1-A
St. Francois
Barton 1B
Dade 1-A
Texas 1-A
Reynolds
Madison 1-B
Bollinger
Cape Girardeau 1A 2C 1D
Jasper 1A 2B 2C
Greene 2A 1C 2D
Webster
Wright 1-A
Shannon
Wayne
Scott 1-C
Lawrence 2B
Christian
Douglas
Howell 2A
Carter
Stoddard
Mississippi
Newton 2A
Stone
Barry 1-A
Taney 1-A
Ozark
Oregon
Ripley 1A
Butler 1B 2C
McDonald
Dunklin
New Madrid
Pemiscot 1-B
1A 1B



MISSOURI

LICENSED NURSING HOMES
MAY 3, 1967

LEGEND

A. Professional Nursing Homes
B. Practical Nursing Homes
C. Domiciliary Nursing Homes
(No.) – Total Bed Capacity

DIVISION OF HEALTH

	TOTAL	ANESTHESIA	CARDIOVASCULAR	DERMATOLOGY	GASTROENTEROLOGY	GENERAL PRACTICE	INTERNAL MEDICINE	NEUROLOGY	O. B. and GYNECOLOGY	OCCUPATIONAL MEDICINE	OPTHALMOLOGY	OTOLARYNGOLOGY	PATHOLOGY	PEDIATRICS	PHYSICAL MEDICINE
MISSOURI TOTAL	5,105	123	31	71	9	1,159	896	57	246	27	192	131	199	282	7
Adair *	10					7			1		1				
Andrew *	2					2									
Atchison *	4					4									
Audrain	19					12	1				1	1	1		
Barry	6					6									
Barton *	6					5									
Bates	10					9									
Benton	2					2									
Bollinger	1					1									
Boone * †	287	10	2	9	1	15	43	1	14		15	3	23	22	
Buchanan *	90	2		2		23	10	2	5	1	2	3	2	3	
Butler	41		1			20	3		3		1			2	
Caldwell	3					3									
Callaway *	20	1				8					1			2	
Camden *	5					5									
Cape Girardeau	54	2		1	1	21	6		4		1	2	1	2	
Carroll	7					7									
Carter	–														
Cass *	8					7					1				
Cedar	3					3									
Chariton *	2					2									
Christian	1					1									
Clark *	1					1									
Clay *	43				1	21	6		1		2	3	2	1	
Clinton *	6					5	1								
Cole *	46	1	1	1		13	4		2		2	2	2	2	
Cooper *	11			1		4	3		1					1	
Crawford	4					2									
Dade *	4					4									
Dallas *	2					2									
Davies	3					3									
DeKalb *	1					1									
Dent	3					3									
Douglas	2					2									
Dunklin *	18	1				16									
Franklin *	24					18	2								
Gasconade *	3					3									
Gentry *	4					4									
Greene *	171	6		3	1	24	27	1	12		7	5	7	13	
Grundy *	5					5									
Harrison *	3					3									
Henry	9					8									

OTOLARYNGOLOGY	PATHOLOGY	PEDIATRICS	PHYSICAL MEDICINE	PSYCHIATRY	PUBLIC HEALTH	RADIOLOGY	SURGERY COLON and RECTAL	GENERAL	NEUROLOGY	ORTHOPEDIC	PLASTIC	THORACIC	UROLOGY	ADMINISTRATIVE	ALLERGY	AVIATION	GENERAL PREVENTIVE	OTHERS
31	199	282	7	351	25	197	12	631	41	146	32	32	113	27	9	5	11	43
								1										
1	1							3										
								1										
								1										
3	23	22		21	4	23		39	4	7	1	5	10	3			9	3
3	2	3		12		4		10		3		1	4		1			
		2			1	3		5		1			1					
		2		7				1										
2	1	2		1		3		5		1			3					
3	2	1			1	1		4										
2	2	2		1	4	3		4		2			1					1
		1						1										
				1				1										
								1										
								4										
5	7	13		5	1	8		28	2	9	1	3	6	1				1
								1										

	TOTAL	ANESTHESIA	CARDIOVASCULAR	DERMATOLOGY	GASTROENTEROLOGY	GENERAL PRACTICE	INTERNAL MEDICINE	NEUROLOGY	O. B. and GYNECOLOGY	OCCUPATIONAL MEDICINE	OPTHALMOLOGY	OTOLARYNGOLOGY	PATHOLOGY	PEDIATRICS	PHYSICAL MEDICINE
Hickory	–														
Holt *	2					2									
Howard	6					5			1						
Howell *	12					11			1						
Iron *	5					4			1						
Jackson *	969	40	10	16		157	159	12	74	10	35	21	34	61	2
Jasper *	58	1		1		19	7		4		3	1	2	3	
Jefferson *	21					12			1					1	
Johnson	13					11	1								
Knox	2					2									
Laclede	10					7									
Lafayette *	15					14									
Lawrence *	20					7	9							1	
Lewis	1					1									
Lincoln	4					3									
Linn *	9					7					1				
Livingston *	6					5						1			
McDonald *	2					2									
Macon *	6					4								1	
Madison *	4					4									
Maries	–														
Marion *	23					7	1		2			2	1	3	
Mercer *	1					1									
Miller	2					2									
Mississippi *	7			1		6									
Moniteau *	5					5									
Monroe	3					2									
Montgomery	4					4									
Morgan	4					4									
New Madrid *	8					7			1						
Newton	12					10								1	
Nodaway *	6					6									
Oregon	1					1									
Osage	–														
Ozark	1					1									
Pemiscot	15					14									
Perry	5					4									
Pettis *	26					16	1		1			1	1		
Phelps *	10					7					1				
Pike	10					9						1			
Platte *	4					4									
Polk *	6					6									
Pulaski *	3					2						1			

OTOLARYNGOLOGY	PATHOLOGY	PEDIATRICS	PHYSICAL MEDICINE	PSYCHIATRY	PUBLIC HEALTH	RADIOLOGY	SURGERY COLON and RECTAL	GENERAL	NEUROLOGY	ORTHOPEDIC	PLASTIC	THORACIC	UROLOGY	ADMINISTRATIVE	ALLERGY	AVIATION	GENERAL PREVENTIVE	OTHERS
21	34	61	2	68	2	34	7	118	12	39	7	6	30	6	3	2		4
1	2	3				3		9		2			3					
		1		2		1		3									1	
						1												
								3										
								1										
		1						1				2						
								1										
								1										
1																		
		1				1												
2	1	3			1	1		3		1			1					
								1										
		1						1										
								1										
								1										
1	1					2		2		1			1					
1								2										
1																		

	TOTAL	ANESTHESIA	CARDIOVASCULAR	DERMATOLOGY	GASTROENTEROLOGY	GENERAL PRACTICE	INTERNAL MEDICINE	NEUROLOGY	O. B. and GYNECOLOGY	OCCUPATIONAL MEDICINE	OPTHALMOLOGY	OTOLARYNGOLOGY	PATHOLOGY	PEDIATRICS	PHYSICAL MEDICINE
Putnam *	–														
Ralls	–														
Randolph	11	1	1			5	2		1					1	
Ray	6					4									
Reynolds	–														
Ripley *	1					1									
St. Charles	39					11	4		6		1			6	
St. Clair	5					3	1								
St. Francois *	23					14	2		1						
St. Louis †	2,653	57	15	36	5	350	597	41	108	15	117	82	121	154	5
Ste. Genevieve *	3					3									
Saline	22					18	2							1	
Schuyler	–														
Scotland *	–														
Scott *	24					9	4		1	1		2	1	1	
Shannon *	1					1									
Shelby	2					2									
Stoddard	3					3									
Stone *	6					6									
Sullivan	1					1									
Taney *	9					8							1		
Texas *	3					3									
Vernon *	16	1	1			5									
Warren	3					3									
Washington *	3					3									
Wayne	1					1									
Webster *	2					2									
Worth	1					1									
Wright *	2					2									

* County has indicated need for additional physicians
† School of Medicine located in county

PATHOLOGY	PEDIATRICS	PHYSICAL MEDICINE	PSYCHIATRY	PUBLIC HEALTH	RADIOLOGY	SURGERY COLON and RECTAL	GENERAL	NEUROLOGY	ORTHOPEDIC	PLASTIC	THORACIC	UROLOGY	ADMINISTRATIVE	ALLERGY	AVIATION	GENERAL PREVENTIVE	OTHERS
	1						2										
	6				1		9		1								
			4				1										
							2										
21	154	5	221	10	106	5	357	23	78	23	15	53	16	5	3	1	34
	1		1														
1	1			1	1		2		1								
1													1				
			7		1												

DOCTORS OF OSTEOPATHY - MISSOURI ASSOCIATION

	TOTAL	ANESTHESIOLOGY	DERMATOLOGY and SYPHILOGY	DNB#	GENERAL PRACTICE	INTERNAL MEDICINE	NEUROLOGY and PSYCHIATRY	OBSTETRICS and GYNECOLOGY	OPTHALMOLOGY and OTOLARYNGOLOGY	ORTHOPEDICS	OSTEO
MISSOURI TOTAL	1,000	10	1	4	877	11	2	9	10	1	1
Adair †	73	5			33	7	1	2	4		
Andrew	2				2						
Atchison	1				1						
Audrain	9				8						
Barry *	9	1			7			1			
Barton	3				3						
Bates	4				4						
Benton	5				5						
Bollinger *	2				2						
Boone	7				7						
Buchanan *	13				11			1			
Butler *	1				1						
Caldwell	4				4						
Callaway *	6				6						
Camden *	5				5						
Cape Girardeau *	8				7						
Carroll *	5				5						
Carter	1				1						
Cass	11				11						
Cedar *	4				4						
Chariton *	4				4						
Christian	3				3						
Clark	4				4						
Clay	34	1			32						
Clinton *	7				7						
Cole	23	1			19				1		
Cooper *	5				5						
Crawford	3				3						
Dade	1				1						
Dallas *	3				3						
Davies	3				3						
DeKalb	1				1						
Dent	2				2						
Douglas	2				2						
Dunklin	3				3						
Franklin	4				4						
Gasconade	6				6						
Gentry	3				3						
Greene *	19				17						
Grundy	1				1						
Harrison	6				6						
Henry *	8				6						

TION

OSTEOPATHIC PHYSICIANS & SURGEONS 1966 - 67

OPHTHALMOLOGY and OTOLARYNGOLOGY	ORTHOPEDICS	OTOLARYNGOLOGY and OTORHINOLARYNGOLOGY	PATHOLOGY	PEDIATRICS	PHYSICAL MEDICINE	PROCTOLOGY	PSYCHIATRY	RADIOLOGY	RECTAL DISEASE	ROENTGENOLOGY	ROENTGENOLOGY (DIAGNOSTIC)	SURGERY (GENERAL)
10	1	2	3	7	6	7	5	8	1	5	3	28
4	1		2	2	4		1	3	1	1	1	5
												1
						1						
						1						
				1								
1										1		1
											1	1
												2

DOCTORS OF OSTEOPATHY - MISSOURI ASSOCIATION

	TOTAL	ANESTHESIOLOGY	DERMATOLOGY and SYPHILOGY	DNB#	GENERAL PRACTICE	INTERNAL MEDICINE	NEUROLOGY and PSYCHIATRY	OBSTETRICS and GYNECOLOGY	OPTHALMOLOGY and OTOLARYNGOLOGY	ORTHOPEDICS
Hickory	3				3					
Holt	3				3					
Howard	2				2					
Howell	3				3					
Iron *	0									
Jackson *	227	1	1	1	192	3	1	3	3	
Jasper *	33				29			1		
Jefferson *	8				8					
Johnson *	5				5					
Knox	6				6					
Laclede	3				3					
Lafayette	6				6					
Lawrence *	7				7					
Lewis *	5				5					
Lincoln *	8				6					
Linn *	9				8			1		
Livingston	5				5					
McDonald	4				4					
Macon	17				13					
Madison	2				2					
Maries *	2				2					
Marion	5				5					
Mercer	4				4					
Miller	5				5					
Mississippi *	5				5					
Moniteau	3				3					
Monroe	4				4					
Montgomery	5				5					
Morgan *	1				1					
New Madrid	1				1					
Newton *	9				8					
Nodaway	2			1	1					
Oregon	3				3					
Osage	2				2					
Ozark	1				1					
Pemiscot *	1				1					
Perry	2				2					
Pettis *	10				9				1	
Phelps	3				3					
Pike	7				7					
Platte	1				1					
Polk	3				3					

SSOCIATION

OSTEOPATHIC PHYSICIANS & SURGEONS 1966 - 67

GYNECOLOGY	OPTHALMOLOGY and OTOLARYNGOLOGY	ORTHOPEDICS	OTOLARYNGOLOGY and OTORHINOLARYNGOLOGY	PATHOLOGY	PEDIATRICS	PHYSICAL MEDICINE	PROCTOLOGY	PSYCHIATRY	RADIOLOGY	RECTAL DISEASE	ROENTGENOLOGY	ROENTGENOLOGY (DIAGNOSTIC)	
3	3			1	3	1	2		4		1		1
1							1		1				
1													
								4					
											1		
	1												

	TOTAL	ANESTHESIOLOGY	DERMATOLOGY and SYPHILOGY	DNB#	GENERAL PRACTICE	INTERNAL MEDICINE	NEUROLOGY and PSYCHIATRY	OBSTETRICS and GYNECOLOGY	OPTHALMOLOGY and OTOLARYNGOLOGY	ORTHOPEDICS
Pulaski *	5				5					
Putnam	4				4					
Ralls	2				2					
Randolph	9				9					
Ray *	2				2					
Reynolds	2				2					
Ripley	1				1					
St. Charles	7				7					
St. Clair	1				1					
St. Francois	13				12					
St. Louis	135	1		1	119	1			1	
St. Genevieve	2				2					
Saline *	4				4					
Schuyler	4				4					
Scott	5			1	4					
Scotland	6				6					
Shannon	2				2					
Shelby	6				6					
Stoddard	8				8					
Stone *	1				1					
Sullivan	5				5					
Taney *	2				2					
Texas	2				2					
Vernon	4				4					
Warren	3				3					
Washington	2				2					
Wayne	1				1					
Webster *	3				3					
Worth	1				1					
Wright *	5				5					

*County has indicated need for additional D. O.'s
†School of Osteopathy located in county

ATION | OSTEOPATHIC PHYSICIANS & SURGEONS 1966 - 67

OPTHALMOLOGY and OTOLARYNGOLOGY	ORTHOPEDICS	OTOLARYNGOLOGY and OTORHINOLARYNGOLOGY	PATHOLOGY	PEDIATRICS	PHYSICAL MEDICINE	PROCTOLOGY	PSYCHIATRY	RADIOLOGY	RECTAL DISEASE	ROENTGENOLOGY	ROENTGENOLOGY (DIAGNOSTIC)	SURGERY (GENERAL)
1		2		1	1	2				1	1	5

NUMBER OF DENTISTS IN EACH COUNTY IN MISSOURI AND NUMBER OF SPECIALISTS IN EACH COUNTY AS RECOGNIZED BY THE AMERICAN DENTAL ASSOCIATION AND THE MISSOURI DENTAL BOARD											DENTAL HYGIENISTS EMPLOYED OR LIVING IN STATE BY COUNTY
County	Oral Surgeon	Orthodontist	Periodontist	Oral Pathologist	Edodontist	Pedodontist	Prosthodontist	Public Health	General Practitioner	Total	Total
Adair									9	9	
Andrew									1	1	
Atchison									3	3	
Audrain									8	8	1
Barry									12	12	
Barton									8	8	
Bates									6	6	
Benton									4	4	
Bollinger									1	1	
Boone	1	3							22	26	3
Buchanan	1	2				1	1		34	39	4
Butler		1							11	12	1
Caldwell									2	2	
Callaway									6	6	
Camden									1	1	
Cape Gir.		1							18	19	1
Carroll									4	4	
Carter										0	
Cass									12	12	1
Cedar									4	4	1
Chariton									6	6	
Christian									4	4	
Clark									2	2	
Clay	1								40	41	3
Clinton									5	5	
Cole		1							23	24	2
Cooper									5	5	
Crawford									4	4	
Dade									3	3	
Dallas									1	1	
Davies									3	3	
DeKalb									2	2	
Dent									3	3	
Douglas									1	1	
Dunklin									11	11	1
Franklin									19	19	
Gasconade									4	4	
Gentry									5	5	
Greene	3	5				2	1		77	88	
Grundy									8	8	
Harrison									4	4	
Henry									7	7	
Hickory									1	1	

NUMBER OF DENTISTS IN EACH COUNTY IN MISSOURI AND NUMBER OF SPECIALISTS IN EACH COUNTY AS RECOGNIZED BY THE AMERICAN DENTAL ASSOCIATION AND THE MISSOURI DENTAL BOARD											DENTAL HYGIENISTS EMPLOYED OR LIVING IN STATE BY COUNTY
County	Oral Surgeon	Orthodontist	Periodontist	Oral Pathologist	Edodontist	Pedodontist	Prosthodontist	Public Health	General Practitioner	Total	Total
Holt									1	1	
Howard									3	3	
Howell									9	9	
Iron									4	4	
Jackson	18	23	4	1	1	14	7		372	440	69
Jasper	2	3				1			37	43	2
Jefferson									18	18	
Johnson									8	8	
Knox									3	3	
Laclede									11	11	
Lafayette									11	11	
Lawrence									10	10	
Lewis									3	3	
Lincoln									4	4	
Linn									6	6	
Livingston									6	6	1
McDonald									4	4	
Macon									5	5	1
Madison									2	2	
Maries									1	1	
Marion									13	13	
Mercer									3	3	
Miller									4	4	
Mississippi									3	3	
Moniteau									3	3	
Monroe									3	3	
Montgomery									3	3	
Morgan									3	3	
New Madrid									3	3	
Newton									11	11	
Nodaway									6	6	
Oregon									1	1	
Osage									1	1	
Ozark									1	1	
Pemiscot									5	5	1
Perry									6	6	
Pettis									11	11	
Phelps									13	13	
Pike									8	8	1
Platte									9	9	
Polk									5	5	
Pulaski									5	5	1
Putnam									3	3	1
Ralls										0	

NUMBER OF DENTISTS IN EACH COUNTY IN MISSOURI AND NUMBER OF SPECIALISTS IN EACH COUNTY AS RECOGNIZED BY THE AMERICAN DENTAL ASSOCIATION AND THE MISSOURI DENTAL BOARD											DENTAL HYGIENISTS EMPLOYED OR LIVING IN STATE BY COUNTY
County	Oral Surgeon	Orthodontist	Periodontist	Oral Pathologist	Edodontist	Pedodontist	Prosthodontist	Public Health	General Practitioner	Total	Total
Randolph									8	8	
Ray									7	7	
Reynolds									1	1	
Ripley									3	3	
St. Charles									18	18	
St. Clair									4	4	
St. Francois									13	13	
St. Genevieve									4	4	
St. Louis	14	43	6	1	3	12	11		845	935	54
Saline									11	11	
Schuyler										0	
Scotland									2	2	
Scott									9	9	1
Shannon										0	
Shelby									3	3	
Stoddard									4	4	
Stone									4	4	
Sullivan									1	1	
Taney									11	11	
Texas									5	5	
Vernon									5	5	
Warren									1	1	
Washington									1	1	
Wayne									2	2	
Webster									5	5	
Worth									1	1	
Wright									7	7	
TOTAL	40	82	10	2	4	30	20		2,020	2,208	150

	REGISTERED NURSES													
	EMPLOYED								NEEDED & BUDGE					
COUNTY	R.N.'s Licensed in MO., March, 1967	Industrial Nurses	School Nurses	Nurses Employed in Hospitals – Full Time	Part Time	Public Health Nurses	Nurses Employed in Nursing Homes – Full Time	Part Time	Hospitals – Full Time	Part Time	Nursing Homes – Full Time	Part Time	Nursing School Instructors – Full Time	
Adair	86	1	1	47				1	18				7	
Andrew	21		1				1	3				1		
Atchison	18		1	14			1	1	4					
Audrain	67	2	2	30		2		3	20	1				
Barry	42			17		2	1	6	4	2	1			
Barton	20		2	6		1	1		7					
Bates	17		2	5			1	1	4		1			
Benton	10		1				4	1						
Bollinger	19		2			3		1						
Boone	374	3	3	251		1	9	7	102	2	2		2	
Buchanan	408	6	10	183		12	4	10	74	4	1	1	1	
Butler	81		7	28		10		1	10	2				
Caldwell	10		1			2		1						
Callaway	67		9	31		1	1	1	5					
Camden	12		1			2		1						
Cape Gir.	171	1	8	104		1	1	3	18		2		2	
Carroll	13		1	9				1	6					
Carter	2					1								
Cass	51		4	18		1		1	2	1	1			
Cedar	16		1	6			1		3	1				
Chariton	14		3			1								
Christian	17	1						1						
Clark	4					1								
Clay	86	13	16	195		9		2	14	3				
Clinton	35		1	9		9		1	1	1				
Cole	139	2	2	45		24		1	21	7				
Cooper	50		1	10	14	1	1	1		4	2	1		
Crawford	13			9		2	1		2					
Dade	11		2	5		2		1	2					
Dallas	6					2								
Davies	10					2		1						
DeKalb	22		1				1	1						
Dent	5					3		1						
Douglas	5		1				1							
Dunklin	33		2	15		3		1	10	2				
Franklin	96		7	34			3			2				
Gasconade	18		1				1	1			1			
Gentry	12			8			3	1						
Greene	589	10	7	320		19	11	4	51				1	
Grundy	16	1		5			4	1	3	2				
Harrison	13			7			1		.1	2				
Henry	22		1	12			2	3	2					
Hickory	3					2								
Holt	18		1					3			1			
Howard	23		2	12			1	2	3					
Howell	28		3	12		1	1	2	1	2	1			
Iron	18		1	6		2		1	2					

D FOR:			LICENSED PRACTICAL NURSES										NURSING AIDES EMPLOYED	
			EMPLOYED						NEEDED & BUDGETED FOR:					
Part Time	Visiting Nurses Assoc.	Recommended Budget for Public Health Nurses	Licensed in Mo.	Hospitals – Full Time	Part Time	Nursing Homes – Full Time	Part Time	Public Health	Hospitals – Full Time	Part Time	Nursing Homes – Full Time	Part Time	Hospitals	Nursing Homes
2		3	57	42		2			7	1			165	
		2	19			1	2							23
		2	4	2					3				37	30
		3	86	57		5	2						97	4
		3	17	7		6			4	2		3	47	
		2	27	16		4			4				32	
		2	27			3	4		2			1		30
		2	13			1								
		3	5			1						1		
1		7	166	140		14	2		22		5	2	411	52
		13	125	43		10	3		27	1	2	5	719	35
		3*	148	51		1	1	1	8				153	
		2	3			1		1						
		2	60	16		2	2		4			1	22	
		2	5			1						1		
		4	64	38		4	2		10			1	217	30
		2	20	11		3	1		6			1	30	
		2	-											
		4	35	8		1	1						23	16
		2	15	6			1		1				20	
		2	6			1								
		2	11			1								
		2	4											
		12	78	55		3	2		12		1	1	184	
		2*	18	5		1	1					1	21	14
		4*	83	39		1			28	7			125	
		2	17	4	5	1					2	1	27	9
		2	6	3					3				27	6
		2	11	2		2							20	16
		3	3											
		2	7			2		1				2		7
		2	11			2								34
		2	5			2								
		2	3			2								
		5	68	49	3	2			3	2			54	
		5	42	14		2							76	30
		2	9			1					1			25
		2	8	3		3			3			1	40	23
	1	3*	316	155		33	17	16*	35	1			607	130
		2	24	20			3		5			2	43	8
		2	17	8		3	1		1	1			25	26
		2	34	14		3	2		4				36	27
		2	5											
		2	6			2	1					1		
		2	19	7		2			1	2		3	38	2
		3	10	7		5	1				2	1	39	
		3	19	13		1	1						25	

	REGISTERED NURSES												
	EMPLOYED								NEEDED & BUDGETED				
COUNTY	R.N.'s Licensed in MO., March, 1967	Industrial Nurses	School Nurses	Nurses Employed in Hospitals – Full Time	Part Time	Public Health Nurses	Nurses Employed in Nursing Homes – Full Time	Part Time	Hospitals – Full Time	Part Time	Nursing Homes – Full Time	Part Time	Nursing School Instructors – Full Time
Jackson	2,822	121	70	1,556	60	9*	50	51	261	52	5	2	26
Jasper	197	6	8	104		6	14	7	9	10	14	7	2
Jefferson	139	4	11	12	10	5	11	3					
Johnson	78		2	17			3	3	3	3			
Knox	16									1			
Laclede	36	1	4	11		1		1	4				
Lafayette	61		3	25		1	3	1	8				
Lawrence	61	2	3	35		2	3	2	17	5			
Lewis	9	1				1	1						
Lincoln	32		1	15		1	1	3	2				
Linn	23		1	5	6	2	1	4					
Livingston	35		1	13		3	1	2	3	2			
McDonald	4		1			2	1					1	
Macon	30		1	13		9	1	1	6				
Madison	19		1	11		2		1	4				
Maries	6		1										
Marion	97		5	49		2	2	5	17	5			
Mercer	7		1	3				1	2	1			
Miller	13		1			1		1					
Mississippi	22		4			2	2	1					
Moniteau	7			2			1		2			1	
Monroe	8		1					2					
Montgomery	23		2			2		1					
Morgan	9		1			2	1	1					
New Madrid	15		2			3	1						
Newton	46	1	1	27		3		2	7	4			
Nodaway	55		1	18				2	3				
Oregon	5		1			2	3	1					
Osage	10					2		1			1		
Ozark	2		1			1							
Pemiscot	24		5	12		3							
Perry	28		1	13	14	1							
Pettis	85	1	1	27	10			8			1		
Phelps	55		2	24		2	1	3	3	1	2		1
Pike	43	1	3	25		2		4					
Platte	40		5			3	2						
Polk	18		3	5		2		1	1				
Pulaski	29		5	39		2		1	5				
Putnam	3		1	2					3	3			
Ralls	5		1			4		1					
Randolph	32		1	15		2	1	4	11	2	2		
Ray	20		2	9			1		1				
Reynolds	4					2							
Ripley	10			4		1			4	2			
St. Charles	237	1	8	99		1	8	4	3	6			
St. Clair	9		2	10				1	4	1			
St. Francois	101	1	7	49				8	8	2			
St. Genevieve	25	1	1			1		1					

OR: Part Time	Visiting Nurses Assoc.	Recommended Budget for Public Health Nurses	LICENSED PRACTICAL NURSES EMPLOYED: Licensed in Mo.	Hospitals – Full Time	Part Time	Nursing Homes – Full Time	Part Time	Public Health	LICENSED PRACTICAL NURSES NEEDED & BUDGETED FOR: Hospitals – Full Time	Part Time	Nursing Homes – Full Time	Part Time	NURSING AIDES EMPLOYED: Hospitals	Nursing Homes
1		11	1,338	767		69	19		220	23	6	8	1,574	293
		5	246	122		19	2		4	6		4	189	53
		6	46	16	1	13	1						56	107
		3	27	9		7	1				1		31	25
			9											
		3	23	13		2			3				49	9
		3	17	10		3	1				1		87	45
		3	95	74		2	2		3	2			154	9
		3	6				1					1		
		3	27	11		2	1		2		2	4	2	
		2	24	8		8	2		12		1	3	17	30
		2	21	13		3		1	6	3	2	3	40	
		2	7			2								
		3*	21	11		1	1		7	3		1	29	10
		3	28	18		1			3				52	
		2	2											
		3	82	35		4	3		17	5	1	1	156	18
		2	12	5		1			2			1		
		2	7			1								
		4	6			5	1							
		2	5	2									11	6
		2	8			3					3			8
		2	18			1						1		12
		2	4			2								14
		4	9			5								11
		3	46	37		2	1		13	2		1	77	
		3	19	14		1			1				40	30
		2	2			1	2							
		2	5			1								
		3	-											
		5	17	19									68	
		2	17	5	8		1						16	
		4	36	7		6	1		6		1	5	74	27
		3	15	5		2			1	1	1	1	60	
		2	16	12		5	1				2	3	60	
		4	3			3								
		2	15	2		2	1					2	10	8
		3	15	40		1			3				23	
		2	5	5					4	2			14	
		3	14			1								
		3	52	19		4	4		12	2	1	2	49	21
		2	13	5		2						2	35	12
		2	1											
		3	11	6					3	2			15	
		6	37	18		5	1						109	
		2	6	8		2			2				27	14
		2	88	34		10	4		4		1	1	39	13
		2	15			1	1							

	REGISTERED NURSES												
	EMPLOYED								NEEDED & BUDGE				
COUNTY	R.N.'s Licensed in MO., March, 1967	Industrial Nurses	School Nurses	Nurses Employed in Hospitals – Full Time	Part Time	Public Health Nurses	Nurses Employed in Nursing Homes – Full Time	Part Time	Hospitals – Full Time	Part Time	Nursing Homes – Full Time	Part Time	Nursing School Instructors – Full Time
St. Louis	6,270	185	163	2,691	40		141	108	1,125	88	8	1	22
Saline	63	1	1	36		1	5	3	33	2			
Schuyler	4						1						
Scotland	7		1										
Scott	52		2	19		3		1	4				1
Shannon	3					2							
Shelby	12		1				1						
Stoddard	20		8				2	2					
Stone	10		3			1							
Sullivan	11		1	4				2	2				
Taney	28			8		2	1	2	1				
Texas	12		3	5			1		2				
Vernon	36		2	27				4	9	2			
Warren	17		1			1	1						
Washington	11		1	5		2		1	1				
Wayne	6		2			2							
Webster	27		1			3		2					
Worth	7		1										
Wright	5			4		1	1	1					
	14,067	367	477	6,501	154	230	323	331	1,958	230	46	15	65

*Recommended for county only, does not include state or district office.

) FOR:			LICENSED PRACTICAL NURSES										NURSING AIDES	
			EMPLOYED						NEEDED & BUDGETED FOR:				EMPLOYED	
Part Time	Visiting Nurses Assoc.	Recommended Budget for Public Health Nurses	Licensed in Mo.	Hospitals – Full Time	Part Time	Nursing Homes – Full Time	Part Time	Public Health	Hospitals – Full Time	Part Time	Nursing Homes – Full Time	Part Time	Hospitals	Nursing Homes
2	15		14,113	1,448		179	74		186	29	2	3	5,088	569
		3	20	4		7	1		3		1	3	588	23
		2	4									1		6
		2	-											
		5	48	20		3			6				45	17
		2	-											
		2	7									1		
		4	27			7	4							
		2	-											
		2	15	7		2	2		3		2	2	35	10
		3	6	5		2	1		1				20	9
		3	5	6		4	1		2		1		30	20
		3	93	18		3	4		3	3			537	
		2	11			2	2							27
		3	10	3			1		1				18	
		3	9											
		3	21			2	1							
		2	-											
		2	9	4		2							6	
6	16	331	18,670	3,700	17	551	193	20	726	100	42	83	12,890	2,033

COUNTY	MEDICAL RECORDS LIBRARIANS					TECHNOLOGIST							
						MEDICAL					RADIOLOGICAL		
	Active & Associate Members, M.A.M.R.L.	Employed in Hospitals	Hospitals Reporting Needs	No. Needed & Budgeted for – Full Time	Part Time	Total Technologists Employed in Hospitals	Membership Mo. Society American Medical Tech.	No. Needed & Budgeted for in hospitals Full Time	Part Time	No. Reported Employed in Private Labs	A.R.R.T. Certified Radiological Tech.	No. Needed & Budgeted for in hospitals Full Time	Part Time
Adair	1					38	6	5			2	1	
Andrew	-					-	-				-		
Atchison		1	1	1		4	-	1			2		
Audrain	-					9	-	1	1		4	1	
Barry			1	1		7	2	1			1	2	
Barton			1	1		2	-				-		
Bates	1					2	4				-		
Benton	-					-	1				-		
Bollinger	-					-	-				-		
Boone	5	5	2	2		89	5	10		5	32	1	
Buchanan	7	7	2	3	1	48	5	6			25	2	
Butler	2	2	1	1		6	5	1			9		
Caldwell	-					-	1				-		
Callaway			1	1		10	-				3	1	
Camden	-					-	-				-		
Cape Gir.	1	1	1	1		35	7				12		
Carroll			1	1		5	2				2		
Carter	-					-	-				-		
Cass	1	1	1	1		7	2				6		
Cedar	-					2	-				1		
Chariton	-					-	-				-		
Christian	1	1				-	-				1		
Clark	-					-	-				-		
Clay	1	1	1	1		40	7	2		2	12	1	
Clinton	2	2				2	-		1		1	1	
Cole	3	3	3	3	1	20	2	3			12	4	
Cooper	1	1	1	1		7	2	1	2		4		
Crawford	-					4	1				-		
Dade	-					2	-				-		
Dallas	-					-	-				-		
Davies	-					-	-				-		
DeKalb	-					-	-				-		
Dent	-					-	1			1	1		
Douglas	-					-	-				-		
Dunklin	1	1	1	1		24	4	2			5		
Franklin	1	1				3	5				6		
Gasconade	-					-	-				-		

DIETITIANS					REGISTERED OPTOMETRISTS	REGISTERED PHARMACISTS	SOCIAL WORKERS				
Membership Mo. Dietetic Assoc. 1967	Members Employed	No. Dietitians Reported Employed by Hospitals	No. Needed & Budgeted for by Hospitals – Full Time	Part Time	Total living in Missouri	Total living in Missouri	Membership N.A.S.W. 8-1-67	Employed in Hospitals	Employed in Nursing Homes – Full Time	Part Time	No. Needed & Budgeted for by Hospitals
-		22	2		2	10	1	1			
-					1	4	-		2		
-		1	1		-	9	-				
2	1	1			4	15	2				
-		2	1		3	14	1				
1	1				1	4	-				
-		1			2	6	1				
-					-	4	-				
-					-	3	-				
30	22	29	2		7	48	56	29			
7	5	4	2	3	12	81	14	16			
1	1	2			6	22	2				
-					-	4	-				
3	1	4	1		2	8	7	29			
-					3	4	-				
5	3	3	2	1	7	47	-				
-			1		1	8	-				
1	1	1	1		1	25	2				
-		1			1	4	-				
-					-	11	-				
-					-	3	-				
-					-	4	-				
3	1	4	1		3	30	7				
-		1		1	-	8	-				
7	6	2	1		7	31	21				
3	2		1		2	11	-				1
-		1			3	11	-				
2	2	1			1	2	-				
-					1	5	1				
-					-	5	1				
1	1				1	5	-				
-					2	6	1				
-					1	2	-				
1	1	1	2		4	23	-				
4	2	1			4	19	-				
1					2	2	-				

COUNTY	MEDICAL RECORDS LIBRARIANS					TECHNOLOGIST						
						MEDICAL					RADIOLOGICAL	
	Active & Associate Members, M.A.M.R.L.	Employed in Hospitals	Hospitals Reporting Needs	No. Needed & Budgeted for – Full Time	Part Time	Total Technologists Employed in Hospitals	Membership Mo. Society American Medical Tech.	No. Needed & Budgeted for in hospitals Full Time	Part Time	No. Reported Employed in Private Labs	A.R.R.T. Certified Radiological Tech.	No. Needed & Budgeted for in hospitals Full Time
Gentry	-					3	4				-	
Greene	3	3	2	2		101	4	17	1	6	66	10
Grundy	-					3	1				-	
Harrison	-					4	1				-	
Henry	-					4	3	1			-	
Hickory	-					-	-				-	
Holt	-					-	-				-	
Howard	-		1	1		3	1			1	3	
Howell	1		1		1	5	3				3	
Iron	1	1				2	-				1	
Jackson	37	37	4	2	3	423	53	26	1	35	256	12
Jasper	2	2	1	1		14	9			2	16	1
Jefferson	1	1				6	3				-	
Johnson	2	2				5	6	2			5	1
Knox	-					-	-				-	
Laclede	-					10	-				4	1
Lafayette	1	1				8	1	3			2	
Lawrence	2	2				19	1	2			3	
Lewis	-					-	2				-	
Lincoln	-					5	1	3			7	2
Linn	-	1	2	2		7	-	1			3	1
Livingston	-		1		1	5	2	1			1	
McDonald	-					-	-				-	
Macon	-		1	1		5	2				1	1
Madison	-		1	1		9	1				2	1
Maries	-					-	-				-	
Marion	2	2	1	1		12	-	1			11	
Mercer	-		1	1		-	-				-	
Miller	-					-	-				-	
Mississippi	1	1				-	-				-	
Moniteau	-					-	1				-	
Monroe	-					-	-				-	
Montgomery	-					-	-				-	
Morgan	-					-	2				1	
New Madrid	-					-	1				-	
Newton	1	1	1		1	20	1	2			5	2
Nodaway	1	1				5	-	1			4	
Oregon	-					-	-				-	
Osage	-					-	-				-	
Ozark	-					-	-				1	
Pemiscot	-					6	4				1	
Perry	1	1				3	1				2	
Pettis	-					6	4				5	
Phelps	2	2	1	1		6	1	1			6	1

DIETITIANS					REGISTERED OPTOMETRISTS	REGISTERED PHARMACISTS	SOCIAL WORKERS			
Membership Mo. Dietetic Assoc. 1967	Members Employed	No. Dietitians Reported Employed by Hospitals	No. Needed & Budgeted for by Hospitals – Full Time	Part Time	Total living in Missouri	Total living in Missouri	Membership N.A.S.W. 8-1-67	Employed in Hospitals	Employed in Nursing Homes – Full Time	Part Time	No. Needed & Budgeted for by Hospitals
-	-	1	-	-	-	6	-	-	2	-	-
6	4	6	2	-	16	93	22	11	1	-	-
-	-	1	-	-	2	10	-	-	-	-	-
-	-	1	-	-	2	6	-	-	-	-	-
-	-	2	-	-	4	14	1	-	-	-	-
-	-	-	-	-	-	2	-	-	-	-	-
-	-	1	-	-	-	5	1	-	-	-	-
1	1	2	2	-	2	16	-	-	-	-	-
-	-	-	-	1	-	4	-	-	-	-	-
66	51	73	8	2	69	537	258	43	1	1	
1	-	2	1	-	12	72	-	-	1	-	-
2	-	1	-	-	5	29	-	-	-	-	-
-	-	1	1	-	2	11	1	-	-	1	-
-	-	-	-	1	1	3	-	-	-	-	-
2	2	-	1	-	2	11	-	-	-	-	-
-	-	1	-	-	4	15	-	-	-	-	-
2	2	2	-	-	2	8	1	3	-	1	-
-	-	-	-	-	-	2	-	-	-	-	-
1	-	1	-	-	3	5	1	-	-	-	-
-	-	-	1	-	4	11	-	-	1	-	-
1	1	1	1	-	4	8	3	-	-	-	-
-	-	-	-	-	1	5	-	-	-	-	-
1	1	1	1	-	1	8	-	-	-	-	-
-	-	-	-	-	3	6	-	-	-	-	-
-	-	1	-	1	1	1	-	-	-	-	-
2	2	1	1	-	3	21	-	-	-	-	1
-	-	-	1	-	-	3	-	-	-	-	-
-	-	-	-	-	2	4	-	-	-	-	-
-	-	-	-	-	1	11	-	-	-	-	-
-	-	-	-	-	2	6	-	-	2	-	-
-	-	-	-	-	-	4	-	-	-	-	-
-	-	-	-	-	1	2	-	-	-	-	-
-	-	-	-	-	2	1	-	-	-	-	-
-	-	-	-	-	1	11	1	-	-	-	-
-	-	-	1	2	2	16	1	-	-	-	-
1	1	2	-	-	4	15	1	-	-	-	-
1	-	-	-	-	1	2	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	1	-	-	-	-	-
-	-	-	1	-	2	20	-	-	-	-	-
-	-	-	-	-	1	7	1	-	-	-	-
2	2	1	-	-	5	26	1	-	1	-	-
1	1	1	1	-	2	8	6	-	-	-	-

COUNTY	MEDICAL RECORDS LIBRARIANS					TECHNOLOGIST						
						MEDICAL					RADIOLOGICAL	
	Active & Associate Members, M.A.M.R.L.	Employed in Hospitals	Hospitals Reporting Needs	No. Needed & Budgeted for – Full Time	Part Time	Total Technologists Employed in Hospitals	Membership Mo. Society American Medical Tech.	No. Needed & Budgeted for in hospitals Full Time	Part Time	No. Reported Employed in Private Labs	A.R.R.T. Certified Radiological Tech.	No. Needed & Budgeted for in hospitals Full Time
Pike	-					6	3				7	
Platte	-					-	1				4	
Polk	-					1	-				-	
Pulaski	-		1	1		18	2	1			-	2
Putnam	-		1		1	1	1				-	
Ralls	-					-	-				-	
Randolph	-					17	4	1			3	1
Ray	-					4	-				2	
Reynolds	-					-	-				-	
Ripley	-		1	1		1	-	1	1		-	1
St. Charles	3	3				31	6	4	3	2	16	
St. Clair	-		1		1	3	-	1			1	2
St. Francois	1		1	1		15	2	2			6	1
St. Genevieve	-					-	2				1	
St. Louis	77	76	11	9	2	694	63	41	5	81	359	7
Saline	-		2	2		7	1	5			7	1
Schuyler	-					-	-				-	
Scotland	-					-	-				-	
Scott	1	1				8	-	1			9	
Shannon	-					-	-				-	
Shelby	-					-	1				-	
Stoddard	-					-	1				-	
Stone	-					-	-				-	
Sullivan	1	1				1	1				1	
Taney	-					2	1				4	
Texas	-					1	1	1			1	1
Vernon	-		2	1	1	2	-	2			1	1
Warren	-					-	-				-	
Washington	-					4	1				-	
Wayne	-					-	-				-	
Webster	-					-	-				-	
Worth	-					-	-				-	
Wright	-					2	1				-	
Total	169	166	56	47	13	1,883	267	154	15	135	972	64

DIETITIANS					REGISTERED OPTOMETRISTS	REGISTERED PHARMACISTS	SOCIAL WORKERS				
Membership Mo. Dietetic Assoc. 1967	Members Employed	No. Dietitians Reported Employed by Hospitals	No. Needed & Budgeted for by Hospitals – Full Time	Part Time	Total living in Missouri	Total living in Missouri	Membership N.A.S.W. 8-1-67	Employed in Hospitals	Employed in Nursing Homes – Full Time	Part Time	No. Needed & Budgeted for by Hospitals
1				1		9	1				
2	2				2	5	2				
					1	10					
1	1	3	1		1	8	5				
				1		2					
					2	1					
		1	1		3	11			1		
		1			3	10					
					-	-					
		1	1		1	4					
5	1	3			3	21					
		1	1	1	-	1					
		3	2		3	23	4	10			
					-	4					
207	121	107	11	5	175	1,304	1	118	15	1	1
			1		4	17	3	7			4
					-	3					
		1	1		4	21	1				
					-	1					
					-	4					
1					3	5					
					1	7					
					-	4	1				
1	1	1			1	11					
		1			2	11					
2	1	1	1	1	3	11	3	12			
					1	3					
		1			1	2					
					-	2					
					1	5					
					-	1					
					1	9	1				
382	245	310	61	21	471	3,074	438	279	27	4	7

County	Total Therapists Employed in Hospitals	A.O.T.A. Lists O.T.'s Employed in Mo. Sept. 1967	OCCUPATIONAL THERAPISTS: O.T.'s Needed & Budgeted for by Hospitals – Full Time	OCCUPATIONAL THERAPISTS: Part Time	PHYSICAL THERAPISTS: M.P.T.A. Lists P.T.'s Employed in Mo. 1967	PHYSICAL THERAPISTS: P.T.'s Needed & Budgeted for by Hospitals – Full Time
Adair	3	1	1		2	1
Andrew	-	-			-	
Atchison	-	-			-	
Audrain	2	1		1	1	1
Barry	-	-			-	1
Barton	-	-			-	
Bates	-	-			-	
Benton	-	-			-	
Bollinger	-	-			-	
Boone	26	5	3		14	2
Buchanan	6	2	2		3	
Butler	1	-	1		3	1
Caldwell	-	-			-	
Callaway	7	-	2		-	1
Camden	-	-			-	
Cape Gir.	3	-			1	
Carroll	2	-			-	1
Carter	-	-			-	
Cass	-	-			-	
Cedar	-	-			-	
Chariton	-	-			-	
Christian	-	-			-	
Clark	-	-			1	-
Clay	12	-			1	3
Clinton	2	-			-	
Cole	5	-	2		2	2
Cooper	-	-	1		-	1
Crawford	-	-			-	
Dade	-	-			-	
Dallas	-	-			-	
Davies	-	-			-	
DeKalb	-	-			-	
Dent	-	-			-	
Douglas	-	-			-	
Dunklin	2	-			-	
Franklin	1	-			-	
Gasconade	-	-			-	
Gentry	-	-			-	1
Greene	24	-	2		6	4
Grundy	-	-			-	
Harrison	-	-			-	

Part Time	SPEECH & HEARING	SANITARIANS and MEAT & FOOD INSPECTORS			SANITARY ENGINEERS
	Total Membership Mo. Speech & Hearing Assoc. Sept. 1967	Members – Mo. Assoc. of Sanitarians Mo. Assoc. Milk & Food Sanitarians – With Mo. Addresses	Employed by Div. of Health of Missouri	Recommended Budget for County Health Unit by Div. of Health of Mo.	Employed as of 12/12 by the State, County, & Local Health Dept., The Water Pollution Board, The Water Resources Board, and the Cities of St. Louis & Kansas City
	5	1		1	
	-	-		1/2	
	-	-		1/2	
	1	-	3	1	
	-	-	2	2	
	-	-		1	
	1	1		1	
	-	-		1	
	-	-		1/2	
	21	10		4	1
2	2	10	6	13	
	-	5	10	3*	1
	-	-		1/2	
	-	-		1	
	-	1		1	
	4	2		2	
	1	-		1/2	
	-	-		1/2	
	2	1		2	
	-	-		1/2	
	-	-		1	
	-	1		1	
	1	-		1/2	
	3	1	3	5	2
	-	2	4	1/2	2
1	7	22	19	3	17
	-	-		1	
	-	-		1/2	
	-	-		1/2	
	-	-	1		
	-	-		1	
	-	-		1/2	
	-	-		1	
	1	-		1/2	
	1	1	1	1	
	-	4		3	
	1	-		1/2	
	-	-		1/2	
1	4	21	9	2	2
	1	-		1/2	
	-	-		1/2	

	THERAPIST					
		OCCUPATIONAL THERAPISTS			PHYSICAL THERAPISTS	
County	Total Therapists Employed in Hospitals	A.O.T.A. Lists O.T.'s Employed in Mo. Sept. 1967	O.T.'s Needed & Budgeted for by Hospitals – Full Time	Part Time	M.P.T.A. Lists P.T.'s Employed in Mo. 1967	P.T.'s Needed & Budgeted for by Hospitals – Full Time
Henry	-	-			-	
Hickory	-	-			-	
Holt	-	-			-	
Howard	-	-			1	1
Howell	-	-			-	
Iron	-	-			-	
Jackson	52	25	5		36	8
Jasper	3	-			2	
Jefferson	-	-			-	
Johnson	-	-			1	1
Knox	-	-			-	
Laclede	-	-			-	
Lafayette	2	-			-	
Lawrence	-	-			-	
Lewis	-	-			-	
Lincoln	-	-			-	
Linn	-	-			-	
Livingston	1	-			1	
McDonald	-	-			-	1
Macon	-	-	1	1	-	1
Madison	-	-			-	
Maries	-	-			-	
Marion	2	-			-	
Mercer	-	-			-	
Miller	-	-			-	
Mississippi	-	-			-	
Moniteau	-	-			-	
Monroe	-	-			-	
Montgomery	-	-			-	
Morgan	-	-			-	
New Madrid	-	-			-	
Newton	-	-	1		-	
Nodaway	2	-			-	1
Oregon	-	-			-	
Osage	-	-			-	
Ozark	-	-			-	
Pemiscot	-	-			-	
Perry	-	-			-	
Pettis	4	1			-	
Phelps	1	1			-	
Pike	-	-			-	
Platte	-	-			-	
Polk	-	-			1	

	SPEECH & HEARING	SANITARIANS and MEAT & FOOD INSPECTORS			SANITARY ENGINEERS	
	Total Membership Mo. Speech & Hearing Assoc. Sept. 1967	Members – Mo. Assoc. of Sanitarians Mo. Assoc. Milk & Food Sanitarians – With Mo. Addresses	Employed by Div. of Health of Missouri	Recommended Budget for County Health Unit by Div. of Health of Mo.	Employed as of 12/12 by the State, County, & Local Health Dept., The Water Pollution Board, The Water Resources Board, and the Cities of St. Louis & Kansas City	
	1	-		1		
	-	-		1/3		
	-	-		1/3		
	-	-		1		
	1	2		1		
	-	-		1		
	32	38		2		3
	4	4	1	2		
	1	5	3	4		1
	4	1		2		
	1	-				
	-	3	1	2		
	1	-		1		
	-	-		1		
	1	-		1		
	-	-		1		
	-	-		1/2		
	-	-		1		
	-	2		1/2		
	-	4	6	1		3
	-	1	1	1		
	-	-		1/2		
	-	1	1	2		
	-	-		1/3		
	-	1		1		
	-	-	1	1		
	1	2		1/2		
	1	-		1/2		
	-	-		1/2		
	-	1		1/2		
	-	-	1	1		
	-	1		2		
	1	-		1		
	-	-		1/2		
	-	-		1/2		
	-	-		1		
	-	1	1	2		
	-	-		1		
	-	3		2		1
	2	-		1		
	-	-		1		
	-	-	2	2		
	-	-		1		

	THERAPIST					
		OCCUPATIONAL THERAPISTS			PHYSICAL THERAPIST	
County	Total Therapists Employed in Hospitals	A.O.T.A. Lists O.T.'s Employed in Mo. Sept. 1967	O.T.'s Needed & Budgeted for by Hospitals – Full Time	Part Time	M.P.T.A. Lists P.T.'s Employed in Mo. 1967	P.T.'s Needed & Budgeted for by Hospitals – Full Time
Pulaski	2	-			3	
Putnam	-	-			-	
Ralls	-	-			-	
Randolph	1	-			-	1
Ray	-	-			-	
Reynolds	-	-			-	
Ripley	-	-			-	
St. Charles	3	-			-	
St. Clair	-	-			-	
St. Francois	3	1			-	1
St. Genevieve	-	-			-	
St. Louis	148	78	12	2	89	11
Saline	3	-	1		1	2
Schuyler	-	-			-	
Scotland	-	-			-	
Scott	-	-			-	1
Shannon	-	-			-	
Shelby	-	-			-	
Stoddard	-	-			-	
Stone	-	-			-	
Sullivan	-	-			-	
Taney	-	-		1	-	
Texas	-	-			-	1
Vernon	1	-			-	1
Warren	-	-			-	
Washington	-	-			-	
Wayne	-	-			-	
Webster	-	-			-	
Worth	-	-			-	
Wright	-	-			-	
TOTAL	324	115	34	5	169	50

*Recommended for county only, does not include state or district office

Part Time	SPEECH & HEARING	SANITARIANS and MEAT & FOOD INSPECTORS			SANITARY ENGINEERS
	Total Membership Mo. Speech & Hearing Assoc. Sept. 1967	Members – Mo. Assoc. of Sanitarians Mo. Assoc. Milk & Food Sanitarians – With Mo. Addresses	Employed by Div. of Health of Missouri	Recommended Budget for County Health Unit by Div. of Health of Mo.	Employed as of 12/12 by the State, County, & Local Health Dept., The Water Pollution Board, The Water Resources Board, and the Cities of St. Louis & Kansas City
	-	1		1	
	-	-		1/3	
	-	-		1/2	
	2	-		1	
	-	-		1	
	-	-		1/2	
1	3	-		3	
	-	-		1/2	
1	3	-		1	
	1	-		1	
	109	81			13
	1	-		1	
	-	-		1/3	
	-	1		1/2	
	1	2	2	2	
	-	-		1/2	
	-	-		1/2	
	1	-		2	
	-	-		1/2	
	-	-		1/2	
1	-	-	1	1	
	-	-		1	
1	-	-		1	
	-	-		1/2	
	-	-		1	
	-	-		1/2	
	-	1	1	1	
	-	-		1/3	
	-	1	1	1	
4	228	240	81	113 – FT 42 – PT	46

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